

PATCHOULI AND BERGAMOT #EU35790F

REGULATION (EC) No 1223/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

Issue date: 11/24/2025 Version: 1.0

ALLERGENS								
Reference number	Name of common ingredients glossary	CAS-No.	EC-No.	Allergen % in product				Comments
				% in w/w Direct addition	% in w/w From Essential oil(s)	% in w/w in the concentrate	% in w/w for a usage at - %	
350	Citrus Aurantium Amara Flower Oil / Citrus Aurantium Dulcis Flower Oil	72968-50-4 8028-48-6 8016-38-4	277-143-2 232-433-8	0	10.35	10.35	-	
351	Citrus Aurantium Amara Peel Oil / Citrus Aurantium Dulcis Peel Oil; Citrus Sinensis Peel Oil	68916-04-1 72968-50-4 97766-30-8 8028-48-6 8008-57-9	277-143-2 307-891-8 232-433-8	0	10.35	10.35	-	
88	Limonene	138-86-3 7705-14-8 5989-27-5 5989-54-8	205-341-0 231-732-0 227-813-5 227-815-6	0.036825	9.8739	9.910725	-	
75	Benzyl salicylate	118-58-1	204-262-9	4.45	0	4.45	-	
346	Vanillin	121-33-5	204-465-2	4.38122245	0	4.38122245	-	
76	Cinnamal	104-55-2	203-213-9	3.04375	0	3.04375	-	
71	Eugenol	97-53-0	202-589-1	2.25325	0.63975	2.893	-	
77	Coumarin	91-64-5	202-086-7	1.100075	0	1.100075	-	
69	Cinnamyl alcohol	104-54-1	203-212-3	0.750075	0	0.750075	-	
356	Eugenia Caryophyllus Leaf Oil / Eugenia Caryophyllus Flower Oil / Eugenia Caryophyllus Stem oil / Eugenia Caryophyllus Bud oil	8000-34-8 8015-97-2 84961-50-2 84961-50-2 84961-50-2 84961-50-2	616-772-2 - 284-638-7 284-638-7 284-638-7 284-638-7	0	0.75000039	0.75000039	-	
343	Terpineol	8000-41-7 98-55-5 138-87-4	232-268-1 202-680-6 205-342-6	0.6048	0	0.6048	-	

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		586-81-2	209-584-3					
365	Pogostemon Cablin Oil / Pogostemon Cablin Leaf Oil	8014-09-3 84238-39-1	282-493-4	0.6	0	0.6	-	
85	Benzyl benzoate	120-51-4	204-402-9	0.45834	0	0.45834	-	
332	Beta-Caryophyllene	87-44-5	201-746-1	0.04785	0.07725	0.1251	-	
371	Pinene	80-56-8 7785-70-8 127-91-3 18172-67-3	201-291-9 232-087-8 204-872-5 242-060-2	0.0051	0.0621	0.0672	-	
84	Linalool	78-70-6	201-134-4	0.006375	0.047325	0.0537	-	
133	Terpinolene	586-62-9	209-578-0	0.0108	0	0.0108	-	
337	Linalyl Acetate	115-95-7	204-116-4	0.00393	0	0.00393	-	
368	Eugenyl Acetate	93-28-7	202-235-6	0.0003	0.00255	0.00285	-	
131	Alpha-Terpinene	99-86-5	202-795-1	0.0015	0	0.0015	-	
73	Isoeugenol	97-54-1 5932-68-3 5912-86-7	202-590-7 227-678-2 227-633-7	0	0.00075	0.00075	-	
324	Methyl Salicylate	119-36-8	204-317-7	0	0.00075	0.00075	-	
70	Citral / Geranial / Neral	5392-40-5 141-27-5 106-26-3	226-394-6 205-476-5 203-379-2	0.000675	0	0.000675	-	
78	Geraniol	106-24-1	203-377-1	0.000075	0	0.000075	-	
80	Anise alcohol	105-13-5	203-273-6	0.000015	0	0.000015	-	
45	Benzyl Alcohol	100-51-6	202-859-9	Not detected	Not detected	Not detected	Not detected	
46	6-Methyl Coumarin	92-48-8	202-158-8	Not detected	Not detected	Not detected	Not detected	
67	Amyl cinnamal	122-40-7	204-541-5	Not detected	Not detected	Not detected	Not detected	
72	Hydroxycitronellal	107-75-5	203-518-7	Not detected	Not detected	Not detected	Not detected	
74	Amylcinnamyl alcohol	101-85-9	202-982-8	Not detected	Not detected	Not detected	Not detected	

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81	Benzyl cinnamate	103-41-3	203-109-3	Not detected	Not detected	Not detected	Not detected	
82	Farnesol	4602-84-0	225-004-1	Not detected	Not detected	Not detected	Not detected	
86	Citronellol	106-22-9 26489-01-0 1117-61-9 7540-51-4	203-375-0 247-737-6 214-250-5 231-415-7	Not detected	Not detected	Not detected	Not detected	
87	Hexyl cinnamal	101-86-0	202-983-3	Not detected	Not detected	Not detected	Not detected	
89	Methyl 2-Octynoate	111-12-6	203-836-6	Not detected	Not detected	Not detected	Not detected	
90	alpha-Isomethyl ionone	127-51-5	204-846-3	Not detected	Not detected	Not detected	Not detected	
91	Evernia prunastri extract	90028-68-5	289-861-3	Not detected	Not detected	Not detected	Not detected	
92	Evernia furfuracea extract	90028-67-4	289-860-8	Not detected	Not detected	Not detected	Not detected	
109	Pinus Mugo Leaf Oil; Pinus Mugo Twig Leaf Extract; Pinus Mugo Twig Oil	90082-72-7	290-163-6	Not detected	Not detected	Not detected	Not detected	
114	Pinus Pumila Needle Extract; Pinus Pumila Twig Leaf Extract; Pinus Pumila Twig Leaf Oil	97676-05-6	307-681-6	Not detected	Not detected	Not detected	Not detected	
122	Cedrus Atlantica Bark Extract; Cedrus Atlantica Bark Oil; Cedrus Atlantica Bark Water; Cedrus Atlantica Leaf Extract; Cedrus Atlantica Wood Extract; Cedrus Atlantica Wood Oil	92201-55-3 8023-85-6	295-985-9	Not detected	Not detected	Not detected	Not detected	
124	Turpentine	9005-90-7 8006-64-2 8052-14-0	232-688-5 232-350-7	Not detected	Not detected	Not detected	Not detected	
154	Myroxylon Balsamum Pereirae Balsam Extract; Myroxylon Balsamum Pereirae Balsam Oil; Myroxylon Pereirae Oil; Myroxylon Pereirae Resin Extract; Myroxylon Pereirae Resin	8007-00-9	232-352-8	Not detected	Not detected	Not detected	Not detected	
157	Alpha-Damascone; cis-Rose ketone 1 / trans-Rose ketone 1 / Rose ketone 4 (Damasconone) / Rose ketone 3 (delta-Damascone) / trans-Rose ketone 3 / cis-Rose ketone 2 (cis-beta-Damascone) / trans-Rose ketone 2 (trans-beta-Damascone)	43052-87-5 23726-94-5 24720-09-0 23696-85-7 57378-68-4 71048-82-3 23726-92-3	245-845-8 246-430-4 245-833-2 260-709-8 275-156-8 245-843-7	Not detected	Not detected	Not detected	Not detected	

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		23726-91-2	245-842-1					
175	3-Propylideneephthalide	17369-59-4	241-402-8	Not detected	Not detected	Not detected	Not detected	
196	Lippia citriodora absolute	8024-12-2 85116-63-8	285-515-0	Not detected	Not detected	Not detected	Not detected	
327	Acetyl Cedrene	32388-55-9	251-020-3	Not detected	Not detected	Not detected	Not detected	
328	Amyl Salicylate	2050-08-0	218-080-2	Not detected	Not detected	Not detected	Not detected	
329	Anethole	104-46-1 4180-23-8	203-205-5 224-052-0	Not detected	Not detected	Not detected	Not detected	
330	Benzaldehyde	100-52-7	202-860-4	Not detected	Not detected	Not detected	Not detected	
331	Camphor	76-22-2 21368-68-3 464-49-3 464-48-2	200-945-0 244-350-4 207-355-2 207-354-7	Not detected	Not detected	Not detected	Not detected	
333	Carvone	99-49-0 6485-40-1 2244-16-8	202-759-5 229-352-5 218-827-2	Not detected	Not detected	Not detected	Not detected	
334	Dimethyl Phenethyl Acetate	151-05-3	205-781-3	Not detected	Not detected	Not detected	Not detected	
335	Hexadecanolactone	109-29-5	203-662-0	Not detected	Not detected	Not detected	Not detected	
336	Hexamethylindanopyran	1222-05-5	214-946-9	Not detected	Not detected	Not detected	Not detected	
338	Menthol	89-78-1 1490-04-6 2216-51-5 15356-60-2	201-939-0 216-074-4 218-690-9 239-387-8	Not detected	Not detected	Not detected	Not detected	
339	Trimethylcyclopentenyl Methylisopentenol	67801-20-1	267-140-4	Not detected	Not detected	Not detected	Not detected	
340	Salicylaldehyde	90-02-8	201-961-0	Not detected	Not detected	Not detected	Not detected	
341	Santalol	11031-45-1 115-71-9 77-42-9	234-262-4 204-102-8 201-027-2	Not detected	Not detected	Not detected	Not detected	
342	Sclareol	515-03-7	208-194-0	Not detected	Not detected	Not detected	Not detected	
344	Tetramethyl acetyloctahydronaphthalenes	54464-57-2	259-174-3	Not detected	Not detected	Not detected	Not detected	

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		54464-59-4 68155-66-8 68155-67-9	259-175-9 268-978-3 268-979-9					
345	Trimethylbenzenepropanol	103694-68-4	403-140-4	Not detected	Not detected	Not detected	Not detected	
347	Cananga Odorata Flower Extract; Cananga Odorata Flower Oil	83863-30-3 8006-81-3 68606-83-7 93686-30-7	281-092-1 297-681-1	Not detected	Not detected	Not detected	Not detected	
348	Cinnamomum Cassia Leaf Oil	8007-80-5 84961-46-6	284-635-0	Not detected	Not detected	Not detected	Not detected	
349	Cinnamomum Zeylanicum Bark Oil	8015-91-6 84649-98-9	283-479-0	Not detected	Not detected	Not detected	Not detected	
352	Citrus Aurantium Bergamia Peel Oil	8007-75-8 89957-91-5 68648-33-9 8007-75-8 85049-52-1	616-915-9 289-612-9 - 616-915-9	Not detected	Not detected	Not detected	Not detected	
353	Citrus Limon Peel Oil	84929-31-7 8008-56-8	284-515-8	Not detected	Not detected	Not detected	Not detected	
354	Cymbopogon Schoenanthus Oil / Cymbopogon Flexuosus Oil / Cymbopogon Citratus Leaf Oil	8007-02-1 89998-16-3 91844-92-7 8007-02-1 91844-92-7	289-754-1 295-161-9 295-161-9 295-161-9	Not detected	Not detected	Not detected	Not detected	
355	Eucalyptus Globulus Leaf Oil; Eucalyptus Globulus Leaf/Twig Oil	97926-40-4 8000-48-4 8000-48-4	308-257-3 616-775-9 616-775-9	Not detected	Not detected	Not detected	Not detected	
357	Jasminum Grandiflorum Flower Extract; Jasminum Officinale Oil; Jasminum Officinale Flower Extract	84776-64-7 90045-94-6 8022-96-6 8024-43-9 90045-94-6	283-993-5 289-960-1 289-960-1	Not detected	Not detected	Not detected	Not detected	
358	Juniperus Virginiana Oil; Juniperus Virginiana Wood Oil	8000-27-9 85085-41-2	285-370-3	Not detected	Not detected	Not detected	Not detected	

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359	Laurus Nobilis Leaf Oil	8002-41-3 8007-48-5 84603-73-6	283-272-5	Not detected	Not detected	Not detected	Not detected	
360	Lavandula Hybrida Oil; Lavandula Hybrida Extract; Lavandula Hybrida Flower Extract / Lavandula Intermedia Flower/Leaf/Stem Extract; Lavandula Intermedia Flower/Leaf/Stem Oil; Lavandula Intermedia Oil / Lavandula Angustifolia Oil; Lavandula Angustifolia Flower/Leaf/Stem Extract	91722-69-9 8022-15-9 93455-96-0 93455-97-1 92623-76-2 84776-65-8 8000-28-0 90063-37-9 84776-65-8 8000-28-0 90063-37-9	294-470-6 296-408-3 283-994-0 289-995-2	Not detected	Not detected	Not detected	Not detected	
361	Mentha Piperita Oil	8006-90-4 84082-70-2	282-015-4	Not detected	Not detected	Not detected	Not detected	
362	Mentha Viridis Leaf Oil	8008-79-5 84696-51-5	616-927-4 283-656-2	Not detected	Not detected	Not detected	Not detected	
363	Narcissus Poeticus Extract / Narcissus Pseudonarcissus Flower Extract / Narcissus Jonquilla Extract / Narcissus Tazetta Extract	90064-26-9 68917-12-4 90064-27-0 90064-25-8	290-087-3 - 290-088-9 290-086-8	Not detected	Not detected	Not detected	Not detected	
364	Pelargonium Graveolens Oil / Pelargonium Graveolens Flower Oil / Pelargonium Graveolens Leaf Oil	90082-51-2 8000-46-2	290-140-0	Not detected	Not detected	Not detected	Not detected	
366	Rosa Damascena Flower Oil; Rosa Damascena Flower Extract / Rosa Alba Flower Oil; Rosa Alba Flower Extract / Rosa Canina Flower Oil / Rosa Centifolia Flower Oil; Rosa Centifolia Flower Extract / Rosa Gallica Flower Oil / Rosa Moschata Flower Oil / Rosa Rugosa Flower Oil	8007-01-0 90106-38-0 93334-48-6 84696-47-9 84604-12-6 84604-13-7 - 92347-25-6	290-260-3 297-122-1 283-652-0 283-289-8 283-290-3 296-213-3	Not detected	Not detected	Not detected	Not detected	
367	Santalum Album Oil	8006-87-9 84787-70-2	284-111-1	Not detected	Not detected	Not detected	Not detected	
369	Geranyl Acetate	105-87-3	203-341-5	Not detected	Not detected	Not detected	Not detected	

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370	Isoeugenyl Acetate	93-29-8	202-236-1	Not detected	Not detected	Not detected	Not detected	
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CERTIFICATE OF CONFORMITY OF FRAGRANCE MIXTURES WITH IFRA STANDARDS

This certificate assesses the conformity of the fragrance mixture with IFRA Standards and provides restrictions for use as necessary. It is based only on those materials subject to IFRA Standards for the toxicity endpoint(s) described in each Standard.

This Certificate does therefore not replace a comprehensive safety assessment of the fragrance mixture.

CERTIFYING PARTY:

CERTIFICATE DELIVERED TO:

SCOPE OF THE CERTIFICATE:

Product: PATCHOULI AND BERGAMOT #EU35790F

Compulsory information:

We certify that the above mixture is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), up to and including the 51 Amendment to the IFRA Code of Practice (published June, 2023) provided it is used in the following class(es) at a maximum concentration level of:

IFRA Category(ies) [see Table 12 in Guidance for the use of IFRA Standards for details]	Level of use (%)*	Product application
Category 1	0 %	Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.) Children's toys
Category 2	0.45995893 %	Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deocologne, etc.) Body sprays (including body mist)
Category 3	0.62222222 %	Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer Facial make up and foundation Make-up remover for face and eyes Nose pore strips Wipes or refreshing tissues for face, neck, hands, body

Disclaimer: This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents. This certificate is the responsibility of the fragrance supplier issuing it. It has not been prepared or endorsed by IFRA in anyway.

		Body and face paint (for children and adults) Facial masks for face and around the eyes
Category 4	8.21355236 %	Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, etc.), aftershaves of all types (except creams and balms) Fragranced bracelets Ingredients of perfume kits and fragrance mixtures for cosmetic kits Scent pads, foil packs Scent strips for hydroalcoholic products
Category 5A	2.1026694 %	Body creams, oils, lotions of all types Foot care products (creams and powders) Insect repellent (intended to be applied to the skin) All powders and talc (excluding baby powders and talc)
Category 5B	0.31111111 %	Facial toner Facial moisturizers and creams (including care products for beard and mustache)
Category 5C	0.62222222 %	Hand cream Nail care products including cuticle creams, nail lacquer remover, etc. Hand sanitizers
Category 5D	0.10222222 %	Baby cream/lotion, baby oil, baby powders and talc
Category 6	0 %	Toothpaste Mouthwash, including breath sprays Toothpowder, strips, mouthwash tablets
Category 7A	0.62222222 %	Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes
Category 7B	0.62222222 %	Hair sprays of all types (pumps, aerosol sprays, etc.) Hair styling aids non sprays (mousse, gels, leave-on conditioners) Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes Shampoo - Dry (waterless shampoo) Hair deodorizer, hair perfume*
Category 8	0.10222222 %	Intimate wipes Intimate deodorant spray Tampons Baby wipes Toilet paper (wet)
Category 9	2.51851852 %	Bar soap Shampoo of all type Cleanser for face (rinse-off) Conditioner (rinse-off) Liquid soap Body washes and shower gels of all types Baby wash, bath, shampoo Bath gels, foams, mousses, salts, oils and other products

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		<p>added to bathwater (such as bath bombs)</p> <p>Foot care products (feet are placed in a bath for soaking)</p> <p>Shaving creams of all types (stick, gels, foams, etc.)</p> <p>All depilatories (including facial) and waxes for mechanical hair removal</p> <p>Shampoos for pets</p>
Category 10A	0.91851852 %	<p>Hand wash laundry detergent (including concentrates)</p> <p>Laundry pre-treatment of all types (e.g.paste, sprays, sticks)</p> <p>Hand dishwashing detergent (including concentrates)</p> <p>Hard surface cleaners of all types (bathroom and kitchen cleansers,furniture polish, etc.)</p> <p>Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates</p> <p>Toilet seat wipes</p> <p>Fabric softeners of all types excluding fabric softener sheets</p> <p>Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics)</p> <p>Floor wax</p> <p>Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc.</p> <p>Ironing water (Odorized distilled water)</p> <p>Dry cleaning kits (involving manual application on the textile)</p>
Category 10B	3.11111111 %	<p>Animal sprays – sprays applied to animals of all types</p> <p>Air freshener sprays, manual, including aerosol and pump</p> <p>Aerosol/spray insecticides</p>
Category 11A	0.10222222 %	<p>Feminine hygiene conventional pads,liners, interlabial pads</p> <p>Baby diapers</p> <p>Incontinence pant, pad</p> <p>Toilet paper (dry)</p>
Category 11B	0.10222222 %	<p>Tights with moisturizers</p> <p>Scented socks, gloves</p> <p>Facial tissues (dry tissues)</p> <p>Napkins</p> <p>Pillow spray</p> <p>Paper towels</p> <p>Wheat bags</p> <p>Facial masks (paper/protective) e.g.surgical masks not used as medical device</p> <p>Fertilizers, solid (pellet or powder)</p>
Category 12	97.77777778 %	<p>Candles of all types (including encased)</p> <p>Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods)</p>

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Automated air fresheners and fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills (cartridge), air freshening crystals, solid non aerosol car diffuser)
 Air delivery systems
 Cat litter
 Cell phone cases
 Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders)
 Dry cleaning kits (placed in the dryer)
 Dryer sheets and fabric softener sheets
 Fuels
 Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays
 Joss sticks or incense sticks
 Dishwash detergent and deodorizers – for machine wash
 Olfactive board games
 Paints
 Plastic articles (excluding toys)
 Scratch and sniff
 Scent pack
 Scent delivery system (using dry air technology)
 Shoe polishes
 Rim blocks (toilet)
 Toilet gel
 Scent beads

**Actual use level or maximum use level*

Information about presence and concentration of fragrance ingredients subject to IFRA Standards in the fragrance mixture (PATCHOULI AND BERGAMOT #EU35790F) is as follows:

Materials under the scope of IFRA Standards	CAS-No.	Recommendation from IFRA Standard:	Concentration (%) in fragrance mixture or finished product	Comment
Estragole	140-67-0 1407-27-8 77525-18-9	Restricted	0.0006	
Isoeugenol	97-54-1 5932-68-3	Restricted	0.00075	
Anisyl alcohol	105-13-5 1331-81-3	Restricted	0.000015	
Citral	106-26-3 141-27-5 5392-40-5	Restricted	0.000675	
Cinnamic alcohol	104-54-1	Restricted	0.750075	
Cinnamic aldehyde	104-55-2	Restricted	3.04375	
Geraniol	106-24-1	Restricted	0.000075	

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Benzyl salicylate	118-58-1	Restricted	4.45
Benzyl benzoate	120-51-4	Restricted	0.45834
Coumarin	91-64-5	Restricted	1.100075
Methyl eugenol	93-15-2	Restricted	0.0675
Eugenol	97-53-0	Restricted	2.893
Furfural	98-01-1	Restricted	0.000105
p-Methoxybenzaldehyde	123-11-5	Restricted	0.0000525
Limonene	138-86-3 7705-14-8 5989-27-5 5989-54-8	Specification	9.910725
Linalool	126-90-9 126-91-0 78-70-6	Specification	0.0537

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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 11/24/2025 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : PATCHOULI AND BERGAMOT #EU35790F
UFI : CPAS-5C6E-3000-DKKP
Product code : EU35790F
Type of product : Perfumes, fragrances
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Main use category : Professional use, Industrial use
Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Perfumes, fragrances
Function or use category : Odour agents

1.3. Details of the supplier of the safety data sheet

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) :

Danger

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Contains	: Orange oil ; Benzyl salicylate; Cinnamic aldehyde; Eugenol; COUMARIN; beta-Caryophyllene; Cinnamic alcohol; Pimento oil (Allspice); Clove Leaf Oil ; Bay oil
Hazard statements (CLP)	: H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Orange oil	CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353-35	5.2 – 10.35	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442-31	2.2 – 4.45	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 EC Index-No.: 606-155-00-6 REACH-no: 01-2119935242-45	1.52 – 3.04375	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
Ethylene brassylate	CAS-No.: 105-95-3 EC-No.: 203-347-8 REACH-no: 01-2119976314-33	1.5 – 2.95	Aquatic Chronic 2, H411
Vanillin	CAS-No.: 121-33-5 EC-No.: 204-465-2 REACH-no: 01-2119516040-60	1.04503325 – 2.17810395	Eye Irrit. 2, H319

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802-33	0.8 – 1.825	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
COUMARIN	CAS-No.: 91-64-5 EC-No.: 202-086-7 REACH-no: 01-2119943756-26	0.60004 – 1.100075	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
Cinnamic alcohol	CAS-No.: 104-54-1 EC-No.: 203-212-3 REACH-no: 01-2119934496-29	0.40004 – 0.750075	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
Clove Leaf Oil	CAS-No.: 8000-34-8 EC-No.: 616-772-2	0.40000013 – 0.75000039	Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
Pimento oil (Allspice)	CAS-No.: 8006-77-7	0.4 – 0.75	Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
beta-Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237-53	0.22 – 0.5625	Asp. Tox. 1, H304 Skin Sens. 1B, H317
benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371-33	0.17732 – 0.45699	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Bay oil	CAS-No.: 8006-78-8 EC-No.: 639-650-0	0.1 – 0.15	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
(R)-p-mentha-1,8-diene; d-limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)	CAS-No.: 5989-27-5 EC-No.: 205-341-0 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353-35	< 0.0075	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
.alpha.-Pinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 80-56-8 EC-No.: 201-291-9	0.00004 – 0.0075	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
.beta.-Pinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 127-91-3 EC-No.: 204-872-5	0.00036 – 0.0075	Flam. Liq. 3, H226
ethyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-46	0.000452 – 0.00133854	Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H336
ethyl formate substance with national workplace exposure limit(s) (AT, BE, CZ, DE, DK, ES, FI, FR, GB, GR, HR, IE, PL, PT, RO, SI, SK, NO, CH, TR)	CAS-No.: 109-94-4 EC-No.: 203-721-0 EC Index-No.: 607-015-00-7	0.00010488 – 0.0012663	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2, H319 STOT SE 3, H335
isobutyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR)	CAS-No.: 110-19-0 EC-No.: 203-745-1 EC Index-No.: 607-026-00-7	0.000075 – 0.000225	Flam. Liq. 2, H225 STOT SE 3, H336
2-furaldehyde substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, PL, PT, RO, SE, SK, NO, CH, TR)	CAS-No.: 98-01-1 EC-No.: 202-627-7 EC Index-No.: 605-010-00-4	0.000035 – 0.000105	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412
Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO)	CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272-42	0.00002 – 0.00006	Aquatic Chronic 3, H412
Acetyl Propionyl substance with national workplace exposure limit(s) (DE, SI, CH)	CAS-No.: 600-14-6 EC-No.: 209-984-8	0.000015 – 0.000045	Flam. Liq. 2, H225 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373
2-methylpropan-1-ol; iso-butanol substance with national workplace exposure limit(s) (AT, BE, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, IE, LT, LV, PL, PT, RO, SE, SI, SK, NO, CH, TR)	CAS-No.: 78-83-1 EC-No.: 201-148-0 EC Index-No.: 603-108-00-1	0.00001 – 0.00003	Flam. Liq. 3, H226 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336
Amyl formate substance with national workplace exposure limit(s) (LT, LV)	CAS-No.: 638-49-3 EC-No.: 211-340-6 EC Index-No.: 607-696-00-0	0.0000004 – 0.00000117	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
isopentyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408-32	0.00000004 – 0.000000117	Flam. Liq. 3, H226

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 EC Index-No.: 606-155-00-6 REACH-no: 01-2119935242-45	(0.001 < C < 0.01) EUH208 (0.01 ≤ C < 0.1) Skin Sens. 1; H317 (0.1 ≤ C < 100) Skin Sens. 1A; H317

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Risk of lung oedema.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Sand. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.
Avoid breathing dust/fume/gas/mist/vapours/spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

Germany

Storage class (LGK, TRGS 510)

Joint storage table

: LGK 10 - Combustible liquids

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

: LGK 1, LGK 2A, LGK 5.1A, LGK 6.2, LGK 7

Joint storage with restrictions permitted for

: LGK 4.1A, LGK 4.2, LGK 4.3, LGK 5.1B, LGK 5.1C, LGK 5.2

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Joint storage permitted for : LGK 2B, LGK 3, LGK 4.1B, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	140 mg/m ³
	25 ppm
HTP (OEL STEL)	280 mg/m ³
	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation, Skin sensitization
Slovenia - Occupational Exposure Limits	
OEL TWA	28 mg/m ³
	5 ppm
OEL STEL	112 mg/m ³
	20 ppm
OEL chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	168 mg/m ³
	30 ppm
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grønseverdi (OEL TWA)	140 mg/m ³
	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m ³ (value calculated)
	37.5 ppm (value calculated)
OEL chemical category	Allergenic substance
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	40 mg/m ³
	7 ppm

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
KZGW (OEL STEL)	80 mg/m ³
	14 ppm
OEL chemical category	Sensitizer
.alpha.-Pinene (80-56-8)	
Belgium - Occupational Exposure Limits	
OEL TWA	20 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	150 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL STEL	300 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	150 mg/m ³
	25 ppm
TPRV (OEL STEL)	300 mg/m ³
	50 ppm
Portugal - Occupational Exposure Limits	
OEL TWA	20 ppm (Turpentine and selected Monoterpenes)
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	113 mg/m ³
	20 ppm
OEL chemical category	Sensitizer
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m ³
	25 ppm
KGV (OEL STEL)	300 mg/m ³
	50 ppm
OEL chemical category	Skin sensitizer
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	140 mg/m ³
	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m ³ (value calculated)
	37.5 ppm (value calculated)
OEL chemical category	Skin notation

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.alpha.-Pinene (80-56-8)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	20 ppm (Turpentine and selected Monoterpenes)
ACGIH® chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer
.beta.-Pinene (127-91-3)	
Belgium - Occupational Exposure Limits	
OEL TWA	20 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	150 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL STEL	300 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	150 mg/m ³
	25 ppm
TPRV (OEL STEL)	300 mg/m ³
	50 ppm
Portugal - Occupational Exposure Limits	
OEL TWA	20 ppm (Turpentine and selected Monoterpenes)
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	113 mg/m ³
	20 ppm
OEL chemical category	Sensitizer
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m ³
	25 ppm
KGV (OEL STEL)	300 mg/m ³
	50 ppm
OEL chemical category	Skin sensitizer
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	140 mg/m ³
	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m ³ (value calculated)
	37.5 ppm (value calculated)
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	20 ppm (Turpentine and selected Monoterpenes)

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.beta.-Pinene (127-91-3)	
ACGIH® chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer
isopentyl acetate (123-92-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	270 mg/m ³
	50 ppm
IOEL STEL	540 mg/m ³
	100 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	270 mg/m ³ (Pentyl acetate (all isomers))
	50 ppm (Pentyl acetate (all isomers))
MAK (OEL STEL)	540 mg/m ³ (Pentylacetate)
	100 ppm (Pentylacetate)
Belgium - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	270 mg/m ³
	50 ppm
KGVI (OEL STEL)	540 mg/m ³
	100 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Denmark - Occupational Exposure Limits	
OEL TWA	271 mg/m ³ (Amyl acetate, all isomers)
	50 ppm (Amyl acetate, all isomers)
OEL STEL	540 mg/m ³
	100 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	270 mg/m ³

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isopentyl acetate (123-92-2)	
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	270 mg/m ³ (Pentyl acetate)
	50 ppm (Pentyl acetate)
HTP (OEL STEL)	540 mg/m ³
	100 ppm
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	270 mg/m ³ (restrictive limit)
	50 ppm (restrictive limit)
VLEP CT (OEL STEL)	540 mg/m ³ (restrictive limit)
	100 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	270 mg/m ³
	50 ppm
Gibraltar - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Greece - Occupational Exposure Limits	
OEL TWA	530 mg/m ³
	100 ppm
OEL STEL	800 mg/m ³
	150 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	270 mg/m ³
CK (OEL STEL)	540 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA	260 mg/m ³
	50 ppm
OEL STEL	520 mg/m ³
	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm

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isopentyl acetate (123-92-2)	
Latvia - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	270 mg/m ³
	50 ppm
TPRV (OEL STEL)	540 mg/m ³
	100 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Malta - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Netherlands - Occupational Exposure Limits	
TGG-15min (OEL STEL)	530 mg/m ³
	98.1 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	250 mg/m ³
NDSch (OEL STEL)	500 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	270 mg/m ³ (indicative limit value)
	50 ppm (indicative limit value (Pentyl acetate, all isomers))
OEL STEL	540 mg/m ³ (indicative limit value)
	100 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	270 mg/m ³
	50 ppm
NPHV (OEL C)	540 mg/m ³

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isopentyl acetate (123-92-2)	
Slovenia - Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	270 mg/m ³ (indicative limit value)
	50 ppm (indicative limit value)
VLA-EC (OEL STEL)	540 mg/m ³
	100 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	270 mg/m ³
	50 ppm
KGV (OEL STEL)	540 mg/m ³
	100 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	260 mg/m ³
	50 ppm
Korttidsverdi (OEL STEL)	325 mg/m ³ (value calculated)
	75 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	260 mg/m ³ (Pentyl acetate all isomers)
	50 ppm (Pentyl acetate all isomers)
KZGW (OEL STEL)	260 mg/m ³ (Pentyl acetate all isomers)
	50 ppm (Pentyl acetate all isomers)
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	50 ppm (Pentyl acetate, all isomers)
ACGIH® TLV® STEL	100 ppm (Pentyl acetate, all isomers)
Acetyl Propionyl (600-14-6)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	0.083 mg/m ³
	0.02 ppm
Chemical category	Skin notation, Skin sensitization
Slovenia - Occupational Exposure Limits	
OEL TWA	0.083 mg/m ³
	0.02 ppm
OEL STEL	0.083 mg/m ³
	0.02 ppm
OEL chemical category	Potential for cutaneous absorption

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Acetyl Propionyl (600-14-6)	
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	0.08 mg/m ³
	0.02 ppm
KZGW (OEL STEL)	0.16 mg/m ³
	0.04 ppm
OEL chemical category	Sensitizer, Skin notation
Amyl formate (638-49-3)	
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
Lithuania - Occupational Exposure Limits	
TPRV (OEL STEL)	10 mg/m ³
OEL chemical category	Skin notation
Benzyl acetate (140-11-4)	
Belgium - Occupational Exposure Limits	
OEL TWA	62 mg/m ³
	10 ppm
Denmark - Occupational Exposure Limits	
OEL TWA	61 mg/m ³
	10 ppm
OEL STEL	122 mg/m ³
	20 ppm
Ireland - Occupational Exposure Limits	
OEL TWA	10 ppm
OEL STEL	30 ppm (calculated)
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	10 ppm
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
Romania - Occupational Exposure Limits	
OEL TWA	50 mg/m ³
	8 ppm
OEL STEL	80 mg/m ³
	13 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	62 mg/m ³

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Benzyl acetate (140-11-4)	
	10 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	10 ppm
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
ethyl acetate (141-78-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	734 mg/m ³
	200 ppm
IOEL STEL	1468 mg/m ³
	400 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	734 mg/m ³
	200 ppm
MAK (OEL STEL)	1468 mg/m ³
	400 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	734 mg/m ³
	200 ppm
KGV I (OEL STEL)	1468 mg/m ³
	400 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	700 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA	540 mg/m ³

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ethyl acetate (141-78-6)	
	150 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	500 mg/m ³
	150 ppm
OEL STEL	1100 mg/m ³
	300 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	730 mg/m ³
	200 ppm
HTP (OEL STEL)	1470 mg/m ³
	400 ppm
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	734 mg/m ³ (restrictive limit)
	200 ppm (restrictive limit)
VLEP CT (OEL STEL)	1468 mg/m ³ (restrictive limit)
	400 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	730 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar - Occupational Exposure Limits	
OEL TWA	200 mg/m ³
	734 ppm
OEL STEL	400 mg/m ³
	1468 ppm
Greece - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	734 mg/m ³
CK (OEL STEL)	1468 mg/m ³
OEL chemical category	Sensitizer
Ireland - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm

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ethyl acetate (141-78-6)	
OEL STEL	1468 mg/m ³
	400 ppm
Italy - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	200 mg/m ³
	54 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	500 mg/m ³
	150 ppm
NRV (OEL C)	1100 mg/m ³
	300 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Malta - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	734 mg/m ³
	200 ppm
TGG-15min (OEL STEL)	1468 mg/m ³
	400 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	734 mg/m ³
NDSch (OEL STEL)	1468 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	734 mg/m ³ (indicative limit value)
	200 ppm (indicative limit value)
OEL STEL	1468 mg/m ³ (indicative limit value)
	400 ppm (indicative limit value)

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ethyl acetate (141-78-6)	
Romania - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	734 mg/m ³
	200 ppm
NPHV (OEL C)	1468 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	734 mg/m ³
	200 ppm
VLA-EC (OEL STEL)	1468 mg/m ³
	400 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	550 mg/m ³
	150 ppm
KGV (OEL STEL)	1100 mg/m ³
	300 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	734 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	1468 mg/m ³
	400 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	734 mg/m ³
	200 ppm
Korttidsverdi (OEL STEL)	1468 mg/m ³ (value from the regulation)
	400 ppm (value from the regulation)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	730 mg/m ³
	200 ppm
KZGW (OEL STEL)	1460 mg/m ³
	400 ppm

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ethyl acetate (141-78-6)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	400 ppm
ethyl formate (109-94-4)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	300 mg/m ³
	100 ppm
MAK (OEL STEL)	600 mg/m ³
	200 ppm
OEL chemical category	Skin notation
Belgium - Occupational Exposure Limits	
OEL STEL	303 mg/m ³
	100 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	308 mg/m ³
	100 ppm
KGVI (OEL STEL)	462 mg/m ³
	150 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	300 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA	300 mg/m ³
	100 ppm
OEL STEL	600 mg/m ³
	200 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	310 mg/m ³
	100 ppm
HTP (OEL STEL)	460 mg/m ³
	150 ppm
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	300 mg/m ³
	100 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	310 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	100 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation

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ethyl formate (109-94-4)	
Greece - Occupational Exposure Limits	
OEL TWA	300 mg/m ³
	100 ppm
OEL STEL	450 mg/m ³
	150 ppm
Ireland - Occupational Exposure Limits	
OEL TWA	300 mg/m ³
	100 ppm
OEL STEL	100 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	250 mg/m ³
NDSch (OEL STEL)	500 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	100 ppm
Romania - Occupational Exposure Limits	
OEL TWA	200 mg/m ³
	66 ppm
OEL STEL	300 mg/m ³
	99 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	310 mg/m ³
	100 ppm
OEL chemical category	Potential for cutaneous absorption
Slovenia - Occupational Exposure Limits	
OEL TWA	310 mg/m ³
	100 ppm
OEL STEL	310 mg/m ³
	100 ppm
OEL chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	308 mg/m ³
	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	308 mg/m ³
	100 ppm
WEL STEL (OEL STEL)	462 mg/m ³
	150 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	150 mg/m ³

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ethyl formate (109-94-4)	
	50 ppm
Korttidsverdi (OEL STEL)	187.5 mg/m ³ (value calculated)
	75 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	310 mg/m ³
	100 ppm
KZGW (OEL STEL)	310 mg/m ³
	100 ppm
OEL chemical category	Skin notation
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® STEL	100 ppm
ACGIH® chemical category	Not Classifiable as a Human Carcinogen
2-furaldehyde (98-01-1)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	20 mg/m ³
	5 ppm
OEL chemical category	Skin notation, Group B Carcinogen
Belgium - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
	2 ppm
OEL chemical category	Skin
Bulgaria - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (Furfuro)
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	8 mg/m ³
	2 ppm
KGVI (OEL STEL)	20 mg/m ³
	5 ppm
OEL chemical category	Skin notation
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	10 mg/m ³
OEL chemical category	Potential for cutaneous absorption
Denmark - Occupational Exposure Limits	
OEL TWA	7.9 mg/m ³
	2 ppm
OEL STEL	15.8 mg/m ³
	4 ppm
OEL chemical category	Potential for cutaneous absorption

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2-furaldehyde (98-01-1)	
Estonia - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
	2 ppm
OEL STEL	20 mg/m ³
	5 ppm
OEL chemical category	Skin notation
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	8 mg/m ³
	2 ppm
HTP (OEL STEL)	20 mg/m ³
	5 ppm
OEL chemical category	Potential for cutaneous absorption
France - Occupational Exposure Limits	
VLEP CT (OEL STEL)	8 mg/m ³
	2 ppm
OEL chemical category	Carcinogen category 2
France - Biological limit values	
BLV	Parameter: total Furoic acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
Greece - Occupational Exposure Limits	
OEL TWA	20 mg/m ³
	5 ppm
OEL STEL	40 mg/m ³
	10 ppm
OEL chemical category	skin - potential for cutaneous absorption
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	8 mg/m ³
CK (OEL STEL)	20 mg/m ³
OEL chemical category	Sensitizer, Potential for cutaneous absorption
Ireland - Occupational Exposure Limits	
OEL TWA	8 mg/m ³
	2 ppm
OEL STEL	20 mg/m ³
	5 ppm
OEL chemical category	Potential for cutaneous absorption
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m ³

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2-furaldehyde (98-01-1)	
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	8 mg/m ³
	2 ppm
TPRV (OEL STEL)	20 mg/m ³
	5 ppm
OEL chemical category	Carcinogen, Skin notation
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	10 mg/m ³
NDSch (OEL STEL)	25 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	2 ppm
OEL chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure
Romania - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
	2.5 ppm
OEL STEL	15 mg/m ³
	4 ppm
OEL chemical category	C2
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	7.9 mg/m ³
	2 ppm
OEL chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	8 mg/m ³
	2 ppm
OEL chemical category	skin - potential for cutaneous absorption
Spain - Biological limit values	
BLV	200 mg/l Parameter: Furoic acid - Medium: urine - Sampling time: end of shift (with hydrolysis)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	8 mg/m ³
	2 ppm
KGV (OEL STEL)	20 mg/m ³
	5 ppm
OEL chemical category	Skin notation
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	8 mg/m ³
	2 ppm
WEL STEL (OEL STEL)	20 mg/m ³

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2-furaldehyde (98-01-1)	
	5 ppm
WEL chemical category	Potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	8 mg/m ³ 2 ppm
Korttidsverdi (OEL STEL)	16 mg/m ³ (value calculated) 4 ppm (value calculated)
OEL chemical category	Skin notation
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	8 mg/m ³ 2 ppm
OEL chemical category	Skin notation
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	0.2 ppm
ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
USA - ACGIH - Biological Exposure Indices	
BEI	200 mg/l Parameter: Furoic acid with hydrolysis - Medium: urine - Sampling time: end of shift (nonspecific)
isobutyl acetate (110-19-0)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	241 mg/m ³ (Butyl acetates) 50 ppm (Butyl acetates)
MAK (OEL STEL)	480 mg/m ³ (Butyl acetate) 100 ppm (Butyl acetate)
Belgium - Occupational Exposure Limits	
OEL TWA	238 mg/m ³ 50 ppm
OEL STEL	712 mg/m ³ 150 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	241 mg/m ³ 50 ppm
OEL STEL	723 mg/m ³ 150 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	241 mg/m ³ 50 ppm
KGVI (OEL STEL)	723 mg/m ³

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isobutyl acetate (110-19-0)	
	150 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	241 mg/m ³ 50 ppm
OEL STEL	723 mg/m ³ 150 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	241 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA	241 mg/m ³ (Butyl acetate, all isomers) 50 ppm (Butyl acetate, all isomers)
OEL STEL	723 mg/m ³ 150 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	241 mg/m ³ 50 ppm
OEL STEL	723 mg/m ³ 150 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	240 mg/m ³ (Butyl acetate) 50 ppm (Butyl acetate)
HTP (OEL STEL)	725 mg/m ³ (Butyl acetate) 150 ppm (Butyl acetate)
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	241 mg/m ³ (restrictive limit) 50 ppm (restrictive limit)
VLEP CT (OEL STEL)	723 mg/m ³ (restrictive limit) 150 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	300 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) 62 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece - Occupational Exposure Limits	
OEL TWA	241 mg/m ³ 50 ppm
OEL STEL	723 mg/m ³ 150 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	241 mg/m ³

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isobutyl acetate (110-19-0)	
CK (OEL STEL)	723 mg/m ³
OEL chemical category	Sensitizer
Ireland - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³ (calculated)
	150 ppm (calculated)
Italy - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	241 mg/m ³
	50 ppm
TPRV (OEL STEL)	723 mg/m ³
	150 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Malta - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	241 mg/m ³
	50 ppm
TGG-15min (OEL STEL)	723 mg/m ³
	150 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	240 mg/m ³
NDSCh (OEL STEL)	720 mg/m ³

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isobutyl acetate (110-19-0)	
Portugal - Occupational Exposure Limits	
OEL TWA	241 mg/m ³ (indicative limit value)
	50 ppm (indicative limit value)
OEL STEL	723 mg/m ³ (indicative limit value)
	150 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	241 mg/m ³
	50 ppm
NPHV (OEL C)	723 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	241 mg/m ³
	50 ppm
VLA-EC (OEL STEL)	723 mg/m ³
	150 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	241 mg/m ³
	50 ppm
KGV (OEL STEL)	723 mg/m ³
	150 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	724 mg/m ³
	150 ppm
WEL STEL (OEL STEL)	903 mg/m ³
	187 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	241 mg/m ³
	50 ppm
Korttidsverdi (OEL STEL)	723 mg/m ³ (value from the regulation)
	150 ppm (value from the regulation)

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isobutyl acetate (110-19-0)	
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	240 mg/m ³
	50 ppm
KZGW (OEL STEL)	720 mg/m ³
	150 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	50 ppm (Butyl acetates, all isomers)
ACGIH® TLV® STEL	150 ppm (Butyl acetates, all isomers)
2-methylpropan-1-ol; iso-butanol (78-83-1)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	150 mg/m ³ (Butanol, all isomers)
	50 ppm (Butanol, all isomers)
MAK (OEL STEL)	600 mg/m ³ (Butanol, all isomers)
	200 ppm (Butanol, all isomers)
Belgium - Occupational Exposure Limits	
OEL TWA	154 mg/m ³
	50 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	154 mg/m ³
	50 ppm
KGVI (OEL STEL)	231 mg/m ³
	75 ppm
OEL chemical category	Skin notation
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	300 mg/m ³
OEL chemical category	Potential for cutaneous absorption
Denmark - Occupational Exposure Limits	
OEL C	150 mg/m ³ (Butanol, all isomers)
	50 ppm (Butanol, all isomers)
OEL chemical category	Potential for cutaneous absorption
Estonia - Occupational Exposure Limits	
OEL TWA	150 mg/m ³
	50 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	150 mg/m ³ (Butanol)
	50 ppm (Butanol)
HTP (OEL STEL)	230 mg/m ³ (Butanol)
	75 ppm (Butanol)
OEL chemical category	Potential for cutaneous absorption

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2-methylpropan-1-ol; iso-butanol (78-83-1)	
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	150 mg/m ³
	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	310 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	100 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece - Occupational Exposure Limits	
OEL TWA	300 mg/m ³
	100 ppm
OEL STEL	300 mg/m ³
	100 ppm
Ireland - Occupational Exposure Limits	
OEL TWA	150 mg/m ³
	50 ppm
OEL STEL	225 mg/m ³
	75 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (Butyl alcohols)
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	10 mg/m ³
OEL chemical category	Skin notation
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m ³
NDSch (OEL STEL)	200 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	50 ppm
Romania - Occupational Exposure Limits	
OEL TWA	100 mg/m ³
	33 ppm
OEL STEL	200 mg/m ³
	66 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	310 mg/m ³
	100 ppm
Slovenia - Occupational Exposure Limits	
OEL TWA	310 mg/m ³
	100 ppm
OEL STEL	310 mg/m ³

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2-methylpropan-1-ol; iso-butanol (78-83-1)	
	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	154 mg/m ³
	50 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m ³
	50 ppm
KGV (OEL STEL)	250 mg/m ³
	75 ppm
OEL chemical category	Skin notation
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	154 mg/m ³
	50 ppm
WEL STEL (OEL STEL)	231 mg/m ³
	75 ppm
Norway - Occupational Exposure Limits	
Takverdi (OEL C)	75 mg/m ³
	25 ppm
OEL chemical category	Skin notation
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	150 mg/m ³
	50 ppm
KZGW (OEL STEL)	150 mg/m ³
	50 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	50 ppm

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

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Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

Respiratory protection

Respiratory protection:

Wear appropriate mask

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Conforms to standard.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 72 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 20.5 mm ² /s
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0.002476926 mm Hg (calculated value)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

VOC content : 16.39765617 % (calculated value)(CARB VOC) (%w/w)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

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10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Orange oil (8008-57-9)	
LD50 oral rat	4400 mg/kg (Source: NZ_CCID)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
Benzyl salicylate (118-58-1)	
LD50 oral rat	2227 mg/kg (Source: NLM_CIP)
LD50 oral	2227 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
Cinnamic aldehyde (104-55-2)	
LD50 oral rat	2220 mg/kg (Source: NLM_CIP)
LD50 oral	2220 mg/kg
LD50 dermal rabbit	1260 mg/kg (Source: EPA_HP)
LD50 dermal	1260 mg/kg
Ethylene brassylate (105-95-3)	
LD50 oral rat	> 5000 mg/kg (Source: ECHA)
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA)
Vanillin (121-33-5)	
LD50 dermal rabbit	> 5010 mg/kg (Source: OECD_SIDS)
LD50 dermal	2600 mg/kg
Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg (Source: NZ_CCID)
LD50 oral	2500 mg/kg bodyweight
LC50 Inhalation - Rat	> 2.58 mg/l/4h
COUMARIN (91-64-5)	
LD50 oral rat	> 5000 mg/kg (Source: JAPAN_GHS)
LD50 dermal rat	293 mg/kg (Source: ECHA_API)
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)
.alpha.-Pinene (80-56-8)	
LD50 oral rat	3700 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)
.beta.-Pinene (127-91-3)	
LD50 oral rat	> 5000 mg/kg (Source: EPA_HP)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
Cinnamic alcohol (104-54-1)	
LD50 oral	2000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
Pimento oil (Allspice) (8006-77-7)	
LD50 oral rat	3600 mg/kg (Source: NLM_CIP)
Clove Leaf Oil (8000-34-8)	
LD50 oral rat	1370 mg/kg (Source: NZ_CCID)
LD50 oral	2650 mg/kg
LD50 dermal rabbit	1200 mg/kg (Source: NLM_CIP)
Acetyl Propionyl (600-14-6)	
LD50 oral rat	3 g/kg (Source: NLM_CIP)
LD50 oral	3000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg (Source: NIOSH)
Amyl formate (638-49-3)	
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
Benzyl acetate (140-11-4)	
LD50 oral rat	2490 mg/kg (Source: JAPAN_GHS)
LD50 oral	2490 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: JAPAN_GHS)
benzyl benzoate (120-51-4)	
LD50 oral rat	> 2000 mg/kg (Source: ECHA_API)
LD50 oral	1160 mg/kg
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)
ethyl acetate (141-78-6)	
LD50 oral rat	5620 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 18000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat [ppm]	4000 ppm/4h
ethyl formate (109-94-4)	
LD50 oral rat	1850 mg/kg (Source: JAPAN_GHS)

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ethyl formate (109-94-4)	
LD50 oral	1850 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: JAPAN_GHS)
2-furaldehyde (98-01-1)	
LD50 oral rat	125 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	500 – 1000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	756 mg/m ³ (Exposure time: 1 h Source: WHO)
LC50 Inhalation - Rat (Vapours)	1 mg/l
isobutyl acetate (110-19-0)	
LD50 oral rat	15400 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	> 17400 mg/kg (Source: NLM_CIP)
2-methylpropan-1-ol; iso-butanol (78-83-1)	
LD50 oral rat	2460 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	3400 mg/kg (Source: NLM_CIP)
LD50 dermal	2460 mg/kg
LC50 Inhalation - Rat	> 18.18 mg/l (Exposure time: 6 h Source: ECHA)
Bay oil (8006-78-8)	
LD50 oral rat	1800 mg/kg (Source: NLM_CIP)
LD50 oral	1800 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Eugenol (97-53-0)	
IARC group	3 - Not classifiable
COUMARIN (91-64-5)	
IARC group	3 - Not classifiable
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
IARC group	3 - Not classifiable
Benzyl acetate (140-11-4)	
IARC group	3 - Not classifiable
2-furaldehyde (98-01-1)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Amyl formate (638-49-3)	
STOT-single exposure	May cause respiratory irritation.
ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.

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ethyl formate (109-94-4)	
STOT-single exposure	May cause respiratory irritation.
2-furaldehyde (98-01-1)	
STOT-single exposure	May cause respiratory irritation.
isobutyl acetate (110-19-0)	
STOT-single exposure	May cause drowsiness or dizziness.
2-methylpropan-1-ol; iso-butanol (78-83-1)	
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Acetyl Propionyl (600-14-6)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
PATCHOULI AND BERGAMOT #EU35790F	
Viscosity, kinematic	20.5 mm ² /s
beta-Caryophyllene (87-44-5)	
Hydrocarbon	Yes
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Hydrocarbon	Yes
.alpha.-Pinene (80-56-8)	
Hydrocarbon	Yes
.beta.-Pinene (127-91-3)	
Hydrocarbon	Yes
benzyl benzoate (120-51-4)	
Viscosity, kinematic	7.456 mm ² /s

11.2. Information on other hazards

Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Benzyl salicylate (118-58-1)	
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)

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Vanillin (121-33-5)	
LC50 - Fish [1]	53 – 61.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
NOEC (acute)	10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight])
Eugenol (97-53-0)	
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LC50 - Fish [1]	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
.alpha.-Pinene (80-56-8)	
LC50 - Fish [1]	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)
benzyl benzoate (120-51-4)	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
NOEC (chronic)	0.168 mg/l
ethyl acetate (141-78-6)	
LC50 - Fish [1]	220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: IUCLID)
EC50 - Crustacea [1]	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
2-furaldehyde (98-01-1)	
LC50 - Fish [1]	13.4 – 19.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
LC50 - Fish [2]	16.79 – 26.35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
isobutyl acetate (110-19-0)	
LC50 - Fish [1]	17 mg/l (Exposure time: 96 h - Species: Oryzias latipes Source: ECHA)
2-methylpropan-1-ol; iso-butanol (78-83-1)	
LC50 - Fish [1]	375 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
LC50 - Fish [2]	1370 – 1670 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	1300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	1070 – 1933 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

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Persistence and degradability	Not established.

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Orange oil (8008-57-9)	
Persistence and degradability	Rapidly degradable
Benzyl salicylate (118-58-1)	
Persistence and degradability	Rapidly degradable
Cinnamic aldehyde (104-55-2)	
Persistence and degradability	Rapidly degradable
Ethylene brassylate (105-95-3)	
Persistence and degradability	May cause long-term adverse effects in the environment.
Vanillin (121-33-5)	
Persistence and degradability	Not established.
Eugenol (97-53-0)	
Persistence and degradability	Rapidly degradable
COUMARIN (91-64-5)	
Persistence and degradability	Rapidly degradable
beta-Caryophyllene (87-44-5)	
Persistence and degradability	Rapidly degradable
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Persistence and degradability	Rapidly degradable
.alpha.-Pinene (80-56-8)	
Persistence and degradability	Rapidly degradable
.beta.-Pinene (127-91-3)	
Persistence and degradability	Rapidly degradable
Cinnamic alcohol (104-54-1)	
Persistence and degradability	Rapidly degradable
Pimento oil (Allspice) (8006-77-7)	
Persistence and degradability	Rapidly degradable
Clove Leaf Oil (8000-34-8)	
Persistence and degradability	Rapidly degradable
isopentyl acetate (123-92-2)	
Persistence and degradability	Rapidly degradable
Acetyl Propionyl (600-14-6)	
Persistence and degradability	Rapidly degradable
Amyl formate (638-49-3)	
Persistence and degradability	Rapidly degradable
Benzyl acetate (140-11-4)	
Persistence and degradability	Rapidly degradable

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benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.
ethyl acetate (141-78-6)	
Persistence and degradability	Rapidly degradable
ethyl formate (109-94-4)	
Persistence and degradability	Rapidly degradable
2-furaldehyde (98-01-1)	
Persistence and degradability	Rapidly degradable
isobutyl acetate (110-19-0)	
Persistence and degradability	Rapidly degradable
2-methylpropan-1-ol; iso-butanol (78-83-1)	
Persistence and degradability	Rapidly degradable
Bay oil (8006-78-8)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

PATCHOULI AND BERGAMOT #EU35790F	
Bioaccumulative potential	Not established.
Orange oil (8008-57-9)	
Partition coefficient n-octanol/water (Log Pow)	$\geq 2.78 - \leq 4.88$
Benzyl salicylate (118-58-1)	
Partition coefficient n-octanol/water (Log Pow)	4
Cinnamic aldehyde (104-55-2)	
Partition coefficient n-octanol/water (Log Pow)	2.1065 (at 25 °C)
Ethylene brassylate (105-95-3)	
Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7)
Bioaccumulative potential	Not established.
Vanillin (121-33-5)	
Partition coefficient n-octanol/water (Log Pow)	1.23 (at 22 °C)
Bioaccumulative potential	Not established.
Eugenol (97-53-0)	
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)
COUMARIN (91-64-5)	
Partition coefficient n-octanol/water (Log Pow)	$\geq 1.91 - \leq 1.51$ (at 25 °C (at pH 7)
beta-Caryophyllene (87-44-5)	
Partition coefficient n-octanol/water (Log Pow)	6.23 (at 25 °C (at pH 7)

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2))
.alpha.-Pinene (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4.1
.beta.-Pinene (127-91-3)	
Partition coefficient n-octanol/water (Log Pow)	4.4 (at 25 °C)
Cinnamic alcohol (104-54-1)	
Partition coefficient n-octanol/water (Log Pow)	1.636 (at 27 °C (at pH 3.52))
isopentyl acetate (123-92-2)	
Partition coefficient n-octanol/water (Log Pow)	2.7 (at 35 °C)
Amyl formate (638-49-3)	
Partition coefficient n-octanol/water (Log Pow)	2.786 (at 25 °C)
Benzyl acetate (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7))
benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)
Bioaccumulative potential	Not established.
ethyl acetate (141-78-6)	
BCF - Fish [1]	(30 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	0.73 (at 20 °C (at pH 7))
ethyl formate (109-94-4)	
BCF - Fish [1]	(will not bioconcentrate)
Partition coefficient n-octanol/water (Log Pow)	1.504 (at 25 °C (at pH 4.61))
2-furaldehyde (98-01-1)	
Partition coefficient n-octanol/water (Log Pow)	0.67
isobutyl acetate (110-19-0)	
BCF - Fish [1]	(no significant bioconcentration)
Partition coefficient n-octanol/water (Log Pow)	2.3 (at 25 °C (at pH 7))
2-methylpropan-1-ol; iso-butanol (78-83-1)	
BCF - Fish [1]	(no bioconcentration expected)
Partition coefficient n-octanol/water (Log Pow)	1 (at 25 °C (at pH 7))

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

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12.7. Other adverse effects

PATCHOULI AND BERGAMOT #EU35790F	
Other information	Avoid release to the environment.
Ethylene brassylate (105-95-3)	
Other information	Avoid release to the environment.
Vanillin (121-33-5)	
Other information	Avoid release to the environment.
benzyl benzoate (120-51-4)	
Other information	Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information	: Avoid release to the environment.
HP Code	: HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

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Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Orange oil ; d-Limonene ; .alpha.-Pinene ; .beta.-Pinene ; Isoamyl acetate ; Acetyl Propionyl ; Amyl formate ; Ethyl acetate ; Ethyl formate ; Furfural ; Isobutyl acetate ; Isobutyl alcohol ; Bay oil	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	PATCHOULI AND BERGAMOT #EU35790F ; Orange oil ; Benzyl salicylate ; Cinnamic aldehyde ; Eugenol ; beta-Caryophyllene ; d-Limonene ; .alpha.-Pinene ; Pimento oil (Allspice) ; Clove Leaf Oil ; Acetyl Propionyl ; Amyl formate ; Benzyl benzoate ; Ethyl acetate ; Ethyl formate ; Furfural ; Isobutyl acetate ; Isobutyl alcohol ; Bay oil	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	PATCHOULI AND BERGAMOT #EU35790F ; Orange oil ; Benzyl salicylate ; Cinnamic aldehyde ; Ethylene brassylate ; d-Limonene ; .alpha.-Pinene ; Pimento oil (Allspice) ; Benzyl acetate ; Benzyl benzoate ; Furfural ; Bay oil	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 16.39765617 % (calculated value)(CARB VOC) (%w/w)

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Austria

Toxic Substances Ordinance 2000 : Is not subject to the Toxic Substances Ordinance 2000.

France

Occupational diseases	
Code	Description
RG 74	Occupational disorders caused by furfural and furfuryl alcohol
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

VOC ordinance (ChemVOCFarbV) : VOC content : 16.39765617 % (calculated value)(CARB VOC) (%w/w)

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907.

Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen : Orange oil is listed

SZW-lijst van mutagene stoffen : Orange oil is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

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- Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with it.
If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

Poland

- Polish National Regulations : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as ammended)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
EUH208	Contains {0 message≤name of sensitising substance> fieldvalue=_SENSITIZER_COMPONENTS}. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

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Full text of H- and EUH-statements:

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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Data emiterii: 24.11.2025 Versiune: 1.0

SECȚIUNEA 1: Identificarea substanței/amestecului și a societății/întreprinderii

1.1. Identificator de produs

Forma produsului : Amestec
Denumire comercială : PATCHOULI AND BERGAMOT #EU35790F
UFI : CPAS-5C6E-3000-DKKP
Codul produsului : EU35790F
Tipul produsului : Parfumuri, odorizante
Grupul de produse : Produs comercial

1.2. Utilizări relevante identificate ale substanței sau ale amestecului și utilizări contraindicate

Utilizări identificate relevante

Categoria principală de utilizare : Utilizare profesională, Utilizare industrială
Specificații de utilizare industrială/profesională : Industrial.
Numai pentru uz profesional.
Utilizarea substanței/amestecului : Parfumuri, odorizante
Funcția sau categoria de utilizare : Odour agents

1.3. Detalii privind furnizorul fișei cu date de securitate

1.4. Număr de telefon care poate fi apelat în caz de urgență

SECȚIUNEA 2: Identificarea pericolelor

2.1. Clasificarea substanței sau a amestecului

Clasificare conform Regulamentului (CE) Nr. 1272/2008 [EU-GHS/CLP]

Corodarea/iritarea pielii, categoria 2 H315
Lezarea gravă a ochilor/iritarea ochilor, categoria 2 H319
Sensibilizarea pielii, categoria 1 H317
Pericol prin aspirare, categoria 1 H304
Periculos pentru mediul acvatic – pericol cronic, categoria 3 H412
Textul complet al frazelor H și EUH: a se vedea secțiunea 16

Efecte fizico-chimice adverse, sănătatea umană și efectele asupra mediului

Provoacă iritarea pielii. Provoacă o iritare gravă a ochilor. Poate fi mortal în caz de înghițire și de pătrundere în căile respiratorii. Nociv pentru mediul acvatic cu efecte pe termen lung. Poate provoca o reacție alergică a pielii.

2.2. Elemente de etichetare

Etichetare în conformitate cu Regulamentul (CE) nr. 1272/2008 [CLP]

Pictograme de pericol (CLP) :



GHS07

GHS08

Cuvinte de avertizare (CLP) :

Pericol

Conține

Orange oil Salicylat de benzilCinnamic aldehydeEugenolCOUMARINbeta-CaryophylleneCinnamic alcoholPimento oil (Allspice)Clove Leaf Oil Bay oil

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Fraze de pericol (CLP)	: H304 - Poate fi mortal în caz de înghițire și de pătrundere în căile respiratorii. H315 - Provoacă iritarea pielii. H317 - Poate provoca o reacție alergică a pielii. H319 - Provoacă o iritare gravă a ochilor. H412 - Nociv pentru mediul acvatic cu efecte pe termen lung.
Fraze de precauție (CLP)	: P261 - Evitați să inspirați praful/fumul/gazul/ceața/vaporii/spray-ul. P264 - Spălați-vă mâinile, antebrațele și fața bine după utilizare. P272 - Nu scoateți îmbrăcămintea de lucru contaminată în afara locului de muncă. P273 - Evitați dispersarea în mediu. P280 - Purtați mănuși de protecție/îmbrăcăminte de protecție/echipament de protecție a ochilor/echipament de protecție a feței/protecție a auzului. P301+P310 - ÎN CAZ DE ÎNGHIȚIRE: sunați imediat la un CENTRU DE INFORMARE TOXICOLOGICĂ sau un medic.

2.3. Alte pericole

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Amestecul nu conține o substanță/substanțe incluse în lista elaborată în conformitate cu articolul 59 alineatul 1 din REACH ca având proprietăți nocive asupra sistemului endocrin sau substanța/substanțele nu sunt identificate ca având proprietăți nocive asupra sistemului endocrin în conformitate cu criteriile prevăzute în Regulamentul delegat al Comisiei (UE) 2017/2100 sau în Regulamentul Comisiei (UE) 2018/605 într-o concentrație mai mare sau egală cu 0,1%

SECȚIUNEA 3: Compoziție/informații privind componenții

3.2. Amestecuri

Numele	Identificator de produs	%	Clasificare conform Regulamentului (CE) Nr. 1272/2008 [EU-GHS/CLP]
Orange oil	Nr. CAS: 8008-57-9 Nr. UE: 232-433-8 REACH-Nr: 01-2119493353-35	5,2 – 10,35	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Salicilat de benzil	Nr. CAS: 118-58-1 Nr. UE: 204-262-9 Nr. de INDEX: 607-754-00-5 REACH-Nr: 01-2119969442-31	2,2 – 4,45	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Cinnamic aldehyde	Nr. CAS: 104-55-2 Nr. UE: 203-213-9 Nr. de INDEX: 606-155-00-6 REACH-Nr: 01-2119935242-45	1,52 – 3,04375	Acute Tox. 4 (Dermică), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
Ethylene brassylate	Nr. CAS: 105-95-3 Nr. UE: 203-347-8 REACH-Nr: 01-2119976314-33	1,5 – 2,95	Aquatic Chronic 2, H411
Vanillin	Nr. CAS: 121-33-5 Nr. UE: 204-465-2 REACH-Nr: 01-2119516040-60	1,04503325 – 2,17810395	Eye Irrit. 2, H319

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Numele	Identificator de produs	%	Clasificare conform Regulamentului (CE) Nr. 1272/2008 [EU-GHS/CLP]
Eugenol	Nr. CAS: 97-53-0 Nr. UE: 202-589-1 REACH-Nr: 01-2119971802-33	0,8 – 1,825	Acute Tox. 4 (Orală), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
COUMARIN	Nr. CAS: 91-64-5 Nr. UE: 202-086-7 REACH-Nr: 01-2119943756-26	0,60004 – 1,100075	Acute Tox. 4 (Orală), H302 Skin Sens. 1B, H317
Cinnamic alcohol	Nr. CAS: 104-54-1 Nr. UE: 203-212-3 REACH-Nr: 01-2119934496-29	0,40004 – 0,750075	Acute Tox. 4 (Orală), H302 Skin Sens. 1B, H317
Clove Leaf Oil	Nr. CAS: 8000-34-8 Nr. UE: 616-772-2	0,40000013 – 0,75000039	Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
Pimento oil (Allspice)	Nr. CAS: 8006-77-7	0,4 – 0,75	Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
beta-Caryophyllene	Nr. CAS: 87-44-5 Nr. UE: 201-746-1 REACH-Nr: 01-2120745237-53	0,22 – 0,5625	Asp. Tox. 1, H304 Skin Sens. 1B, H317
benzoat de benzil	Nr. CAS: 120-51-4 Nr. UE: 204-402-9 Nr. de INDEX: 607-085-00-9 REACH-Nr: 01-2119976371-33	0,17732 – 0,45699	Acute Tox. 4 (Orală), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Bay oil	Nr. CAS: 8006-78-8 Nr. UE: 639-650-0	0,1 – 0,15	Flam. Liq. 3, H226 Acute Tox. 4 (Orală), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
(R)-p-menta-1,8-dienă; d-limonen substanță având o valoare/valori-limită de expunere ocupatională națională (DE, ES, FI, SI, NO, CH)	Nr. CAS: 5989-27-5 Nr. UE: 205-341-0 Nr. de INDEX: 601-096-00-2 REACH-Nr: 01-2119493353-35	< 0,0075	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
.alpha.-Pinene substanță având o valoare/valori-limită de expunere ocupatională națională (BE, EE, ES, LT, PT, SE, NO)	Nr. CAS: 80-56-8 Nr. UE: 201-291-9	0,00004 – 0,0075	Flam. Liq. 3, H226 Acute Tox. 4 (Orală), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Numele	Identificator de produs	%	Clasificare conform Regulamentului (CE) Nr. 1272/2008 [EU-GHS/CLP]
.beta.-Pinene substanță având o valoare/valori-limită de expunere ocupațională naționale (BE, EE, ES, LT, PT, SE, NO)	Nr. CAS: 127-91-3 Nr. UE: 204-872-5	0,00036 – 0,0075	Flam. Liq. 3, H226
acetat de etil substanță având o valoare/valori-limită de expunere ocupațională naționale (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH); substanță cu limită comunitară de expunere la locul de muncă	Nr. CAS: 141-78-6 Nr. UE: 205-500-4 Nr. de INDEX: 607-022-00-5 REACH-Nr: 01-2119475103-46	0,000452 – 0,00133854	Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H336
formiat de etil substanță având o valoare/valori-limită de expunere ocupațională naționale (AT, BE, CZ, DE, DK, ES, FI, FR, GB, GR, HR, IE, PL, PT, RO, SI, SK, NO, CH, TR)	Nr. CAS: 109-94-4 Nr. UE: 203-721-0 Nr. de INDEX: 607-015-00-7	0,00010488 – 0,0012663	Flam. Liq. 2, H225 Acute Tox. 4 (Orală), H302 Acute Tox. 4 (Inhalare), H332 Acute Tox. 4 (Inhalare:vapori), H332 Eye Irrit. 2, H319 STOT SE 3, H335
acetat de izobutil substanță având o valoare/valori-limită de expunere ocupațională naționale (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR)	Nr. CAS: 110-19-0 Nr. UE: 203-745-1 Nr. de INDEX: 607-026-00-7	0,000075 – 0,000225	Flam. Liq. 2, H225 STOT SE 3, H336
2-furaldehidă substanță având o valoare/valori-limită de expunere ocupațională naționale (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, PL, PT, RO, SE, SK, NO, CH, TR)	Nr. CAS: 98-01-1 Nr. UE: 202-627-7 Nr. de INDEX: 605-010-00-4	0,000035 – 0,000105	Flam. Liq. 3, H226 Acute Tox. 3 (Orală), H301 Acute Tox. 4 (Dermică), H312 Acute Tox. 3 (Inhalare), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412
Benzyl acetate substanță având o valoare/valori-limită de expunere ocupațională naționale (BE, DK, ES, IE, LT, LV, PT, RO)	Nr. CAS: 140-11-4 Nr. UE: 205-399-7 REACH-Nr: 01-2119638272-42	0,00002 – 0,00006	Aquatic Chronic 3, H412
Acetyl Propionyl substanță având o valoare/valori-limită de expunere ocupațională naționale (DE, SI, CH)	Nr. CAS: 600-14-6 Nr. UE: 209-984-8	0,000015 – 0,000045	Flam. Liq. 2, H225 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373
2-metilpropan-1-ol; izo-butanol substanță având o valoare/valori-limită de expunere ocupațională naționale (AT, BE, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, IE, LT, LV, PL, PT, RO, SE, SI, SK, NO, CH, TR)	Nr. CAS: 78-83-1 Nr. UE: 201-148-0 Nr. de INDEX: 603-108-00-1	0,00001 – 0,00003	Flam. Liq. 3, H226 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336
Amyl formate substanță având o valoare/valori-limită de expunere ocupațională naționale (LT, LV)	Nr. CAS: 638-49-3 Nr. UE: 211-340-6 Nr. de INDEX: 607-696-00-0	0,0000004 – 0,00000117	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
acetat de izopentil substanță având o valoare/valori-limită de expunere ocupațională naționale (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substanță cu limită comunitară de expunere la locul de muncă	Nr. CAS: 123-92-2 Nr. UE: 204-662-3 Nr. de INDEX: 607-130-00-2 REACH-Nr: 01-2119548408-32	0,00000004 – 0,000000117	Flam. Liq. 3, H226

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Limite de concentrație specifice:		
Numele	Identificator de produs	Limite de concentrație specifice (%)
Cinnamic aldehyde	Nr. CAS: 104-55-2 Nr. UE: 203-213-9 Nr. de INDEX: 606-155-00-6 REACH-Nr: 01-2119935242-45	(0,001 < C < 0,01) EUH208 (0,01 ≤ C < 0,1) Skin Sens. 1; H317 (0,1 ≤ C < 100) Skin Sens. 1A; H317

Textul complet al frazelor H și EUH: a se vedea secțiunea 16

SECȚIUNEA 4: Măsuri de prim ajutor

4.1. Descrierea măsurilor de prim ajutor

Măsuri generale de prim ajutor	: Nu administrați nimic pe cale orală unei persoane inconștiente. Dacă nu vă simțiți bine, solicitați sfatul medicului imediat și (arătați eticheta dacă este posibil). Chemați imediat un medic.
Măsuri de prim ajutor după inhalare	: Transportați persoana la aer liber și mențineți-o într-o poziție confortabilă pentru respirație. Asigurați posibilitatea de a respira aer curat. Lăsați victima să se odihnească.
Măsuri de prim ajutor după contactul cu pielea	: Îndepărtați hainele afectate și spălați toată zona de piele expusă cu săpun slab și apă, urmată de clătire cu apă caldă. În caz de iritare a pielii sau de erupție cutanată: Consultați medicul. Tratament specific (a se vedea Consultați medicul. de pe această etichetă). În caz de iritare a pielii: Consultați medicul. Wash skin with plenty of water. Scoateți îmbrăcămintea contaminată. În caz de iritare a pielii sau de erupție cutanată: consultați medicul.
Măsuri de prim ajutor după contactul cu ochii	: Clătiți imediat cu multă apă. Obțineți îngrijire medicală dacă durerea, clipirea ochilor sau înroșirea persistă. Clătiți cu atenție cu apă, timp de mai multe minute. Scoateți lentilele de contact, dacă este cazul și dacă acest lucru se poate face cu ușurință. Continuați să clătiți. Dacă iritarea ochilor persistă: consultați medicul.
Măsuri de prim ajutor după ingerare	: Clătiți gura. NU provocați vomă. Obțineți îngrijire medicală de urgență. Do not induce vomiting. Chemați imediat un medic.

4.2. Cele mai importante simptome și efecte, atât acute, cât și întârziate

Simptome/efecte	: Nu se așteaptă să prezinte un risc semnificativ în condițiile anticipate de utilizare normală.
Simptome/efecte după contactul cu pielea	: Irritație. Poate provoca o reacție alergică a pielii.
Simptome/efecte după contactul cu ochii	: Eye irritation.
Simptome/efecte după înghițire	: Risk of lung oedema.

4.3. Indicații privind orice fel de asistență medicală imediată și tratamentele speciale necesare

Tratați simptomatic.

SECȚIUNEA 5: Măsuri de combatere a incendiilor

5.1. Mijloace de stingere a incendiilor

Solventul potrivit	: Nisip. Water spray. Pudra uscata. Spumă. Dioxid de carbon.
Agenți de stingere neadecvați	: A nu se folosi un jet puternic de apă.

5.2. Pericole speciale cauzate de substanță sau de amestec

Produse de descompunere periculoase în caz de incendiu	: Toxic fumes may be released.
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5.3. Recomandări destinate pompierilor

Măsuri de stingere a incendiilor	: Aplicați apă pulverizată sau vapori în suspensie pentru răcirea containerelor expuse. Procedați cu atenție atunci când stingeți orice incendiu chimic. Evitați (respingeți) pătrunderea apei folosite la stingerea incendiilor în mediu.
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Protecție la stingerea incendiilor : Nu intrați în zona focului fără echipament de protecție, inclusiv protecție respiratorie. Do not attempt to take action without suitable protective equipment. Aparat de protecție respiratorie izolant autonom. Complete protective clothing.

SECȚIUNEA 6: Măsurile împotriva pierderilor accidentale

6.1. Precauții personale, echipament de protecție și proceduri de urgență

Pentru personalul alocat altor situații decât cele de urgență

Planuri de urgență : Ventilate spillage area. Evacuați personalul care nu este necesar. A se evita contactul cu pielea și cu ochii. Evitați să inspirați praful/fumul/gazul/ceața/vaporii/spray-ul.

Pentru personalul care intervine în situații de urgență

Echipamentul de protecție : Do not attempt to take action without suitable protective equipment. Dotați echipa de curățare cu protecție adecvată. Pentru mai multe informații, a se vedea secțiunea 8: „Controlul expunerii – protecția individuală”.

Planuri de urgență : Zonă aerisită.

6.2. Precauții pentru mediul înconjurător

Evitați dispersarea în mediu. Împiedicați pătrunderea în sisteme publice de canalizare și apă. Notify authorities if liquid enters sewers or public waters.

6.3. Metode și material pentru izolarea incendiilor și pentru curățenie

Metode de curățare : Take up liquid spill into absorbent material. Uscați cu solide inerte, cum sunt argila sau pământul cu infuzoare, cât mai rapid. Colectați scurgerile de produs. Depozitați departe de alte materiale.

Alte informații : Dispose of materials or solid residues at an authorized site.

6.4. Trimiteri către alte secțiuni

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

SECȚIUNEA 7: Manipulare și depozitare

7.1. Precauții pentru manipularea în condiții de securitate

Precauții pentru manipularea în condiții de securitate : Ensure good ventilation of the work station. Spălați mâinile și alte zone expuse cu săpun slab și apă înainte de a mânca, bea sau fuma și atunci când părăsiți locul de muncă. Asigurați o bună ventilație în zona de activitate pentru a împiedica formarea vaporilor. A se evita contactul cu pielea și cu ochii. A se purta echipament individual de protecție. Evitați să inspirați praful/fumul/gazul/ceața/vaporii/spray-ul.

Măsurile de igienă : Spălați îmbrăcămintea contaminată, înainte de reutilizare. Nu scoateți îmbrăcămintea de lucru contaminată în afara locului de muncă. A nu mânca, bea sau fuma în timpul utilizării produsului. Always wash hands after handling the product.

7.2. Condiții de depozitare în condiții de securitate, inclusiv eventuale incompatibilități

Condiții de depozitare : A se păstra numai în recipientul original, într-un loc răcoros și bine ventilat, departe de: A se păstra departe de surse de căldură, suprafețe fierbinți, scântei, flăcări și alte surse de aprindere. Fumul interzis. Păstrați containerul închis atunci când nu este folosit. A se depozita sub cheie. A se depozita într-un spațiu bine ventilat. A se păstra la rece.

Produce incompatibile : Baze tari. Strong acids.

Materiale incompatibile : Surse de aprindere. Lumina directă a soarelui.

Temperatura depozitului : 25 °C

Locul de depozitare : A se depozita într-un spațiu bine ventilat. A se depozita la distanță de sursele de căldură.

Prevederi speciale privind ambalarea : A se depozita într-un recipient închis.

Materialele ambalajului : Nu depozitați în metale oxidabile.

Germania

Clasa de depozitare (LGK, TRGS 510) : LGK 10 - Lichide combustibile

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Stocare alăturată - tabel

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Stocare alăturată - nu este permisă pentru

: LGK 1, LGK 2A, LGK 5.1A, LGK 6.2, LGK 7

Stocare alăturată - este permisă cu restricții pentru

: LGK 4.1A, LGK 4.2, LGK 4.3, LGK 5.1B, LGK 5.1C, LGK 5.2

Stocare alăturată - este permisă pentru

: LGK 2B, LGK 3, LGK 4.1B, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

Elveția

Clasă de depozitare (LK)

: LK 6.1 - Materiale toxice

7.3. Utilizare (utilizări) finală (finale) specifică (specifice)

Nu sunt disponibile informații suplimentare

SECȚIUNEA 8: Controale ale expunerii/protecția personală

8.1. Parametri de control

Valorile-limită naționale de expunere profesională și biologice

(R)-p-menta-1,8-dienă; d-limonen (5989-27-5)	
Finlanda - Valori-limită de expunere profesională	
HTP (OEL TWA)	140 mg/m ³ 25 ppm
HTP (OEL STEL)	280 mg/m ³ 50 ppm
Germania - Valori-limită de expunere profesională (TRGS 900)	
AGW (OEL TWA)	28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Categorie de substanțe chimice TRGS 900	Observație referitoare la piele, Sensibilizare cutanată
Slovenia - Valori-limită de expunere profesională	
OEL TWA	28 mg/m ³ 5 ppm
OEL STEL	112 mg/m ³ 20 ppm
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	168 mg/m ³ 30 ppm
Categorie de substanțe chimice OEL	Sensitizer, skin - potential for cutaneous absorption
Norvegia - Valori-limită de expunere profesională	
Grenseverdi (OEL TWA)	140 mg/m ³ 25 ppm

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(R)-p-menta-1,8-dienă; d-limonen (5989-27-5)	
Korttidssverdi (OEL STEL)	175 mg/m ³ (value calculated)
	37,5 ppm (value calculated)
Categorie de substanțe chimice OEL	Allergenic substance
Elveția - Valori-limită de expunere profesională	
MAK (OEL TWA)	40 mg/m ³
	7 ppm
KZGW (OEL STEL)	80 mg/m ³
	14 ppm
Categorie de substanțe chimice OEL	Sensitizer
.alpha.-Pinene (80-56-8)	
Belgia - Valori-limită de expunere profesională	
OEL TWA	20 ppm
Estonia - Valori-limită de expunere profesională	
OEL TWA	150 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL STEL	300 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
Lituania - Valori-limită de expunere profesională	
IPRV (OEL TWA)	150 mg/m ³
	25 ppm
TPRV (OEL STEL)	300 mg/m ³
	50 ppm
Portugalia - Valori-limită de expunere profesională	
OEL TWA	20 ppm (Turpentine and selected Monoterpenes)
Categorie de substanțe chimice OEL	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	113 mg/m ³
	20 ppm
Categorie de substanțe chimice OEL	Sensitizer
Suedia - Valori-limită de expunere profesională	
NGV (OEL TWA)	150 mg/m ³
	25 ppm
KGV (OEL STEL)	300 mg/m ³
	50 ppm
Categorie de substanțe chimice OEL	Skin sensitizer

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.alpha.-Pinene (80-56-8)	
Norvegia - Valori-limită de expunere profesională	
Grenseverdi (OEL TWA)	140 mg/m ³
	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m ³ (value calculated)
	37,5 ppm (value calculated)
Categorie de substanțe chimice OEL	Observație referitoare la piele
SUA - ACGIH - Valori-limită de expunere profesională	
ACGIH® TLV® TWA	20 ppm (Turpentine and selected Monoterpenes)
Categorie de substanțe chimice ACGIH®	Not Classifiable as a Human Carcinogen, dermal sensitizer
.beta.-Pinene (127-91-3)	
Belgia - Valori-limită de expunere profesională	
OEL TWA	20 ppm
Estonia - Valori-limită de expunere profesională	
OEL TWA	150 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL STEL	300 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
Lituania - Valori-limită de expunere profesională	
IPRV (OEL TWA)	150 mg/m ³
	25 ppm
TPRV (OEL STEL)	300 mg/m ³
	50 ppm
Portugalia - Valori-limită de expunere profesională	
OEL TWA	20 ppm (Turpentine and selected Monoterpenes)
Categorie de substanțe chimice OEL	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	113 mg/m ³
	20 ppm
Categorie de substanțe chimice OEL	Sensitizer
Suedia - Valori-limită de expunere profesională	
NGV (OEL TWA)	150 mg/m ³
	25 ppm
KGV (OEL STEL)	300 mg/m ³
	50 ppm
Categorie de substanțe chimice OEL	Skin sensitizer

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.beta.-Pinene (127-91-3)	
Norvegia - Valori-limită de expunere profesională	
Grenseverdi (OEL TWA)	140 mg/m ³
	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m ³ (value calculated)
	37,5 ppm (value calculated)
SUA - ACGIH - Valori-limită de expunere profesională	
ACGIH® TLV® TWA	20 ppm (Turpentine and selected Monoterpenes)
Categorie de substanțe chimice ACGIH®	Not Classifiable as a Human Carcinogen, dermal sensitizer
acetat de izopentil (123-92-2)	
UE - Valoare limită de expunere ocupațională orientativă (IOEL)	
IOEL TWA	270 mg/m ³
	50 ppm
IOEL STEL	540 mg/m ³
	100 ppm
Austria - Valori-limită de expunere profesională	
MAK (OEL TWA)	270 mg/m ³ (Pentyl acetate (all isomers))
	50 ppm (Pentyl acetate (all isomers))
MAK (OEL STEL)	540 mg/m ³ (Pentylacetate)
	100 ppm (Pentylacetate)
Belgia - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Bulgaria - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Croația - Valori-limită de expunere profesională	
GVI (OEL TWA)	270 mg/m ³
	50 ppm
KGVI (OEL STEL)	540 mg/m ³
	100 ppm
Cipru - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm

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acetat de izopentil (123-92-2)	
Danemarca - Valori-limită de expunere profesională	
OEL TWA	271 mg/m ³ (Amyl acetate, all isomers)
	50 ppm (Amyl acetate, all isomers)
OEL STEL	540 mg/m ³
	100 ppm
Estonia - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Finlanda - Valori-limită de expunere profesională	
HTP (OEL TWA)	270 mg/m ³ (Pentyl acetate)
	50 ppm (Pentyl acetate)
HTP (OEL STEL)	540 mg/m ³
	100 ppm
Franța - Valori-limită de expunere profesională	
VLEP 8h (OEL TWA)	270 mg/m ³ (restrictive limit)
	50 ppm (restrictive limit)
VLEP CT (OEL STEL)	540 mg/m ³ (restrictive limit)
	100 ppm (restrictive limit)
Germania - Valori-limită de expunere profesională (TRGS 900)	
AGW (OEL TWA)	270 mg/m ³
	50 ppm
Gibraltar - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Grecia - Valori-limită de expunere profesională	
OEL TWA	530 mg/m ³
	100 ppm
OEL STEL	800 mg/m ³
	150 ppm
Ungaria - Valori-limită de expunere profesională	
AK (OEL TWA)	270 mg/m ³
CK (OEL STEL)	540 mg/m ³
Irlanda - Valori-limită de expunere profesională	
OEL TWA	260 mg/m ³
	50 ppm

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acetat de izopentil (123-92-2)	
OEL STEL	520 mg/m ³
	100 ppm
Italia - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Letonia - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
Lituania - Valori-limită de expunere profesională	
IPRV (OEL TWA)	270 mg/m ³
	50 ppm
TPRV (OEL STEL)	540 mg/m ³
	100 ppm
Luxemburg - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Malta - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Țările de Jos - Valori-limită de expunere profesională	
TGG-15min (OEL STEL)	530 mg/m ³
	98,1 ppm
Polonia - Valori-limită de expunere profesională	
NDS (OEL TWA)	250 mg/m ³
NDSch (OEL STEL)	500 mg/m ³
Portugalia - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³ (indicative limit value)
	50 ppm (indicative limit value (Pentyl acetate, all isomers))
OEL STEL	540 mg/m ³ (indicative limit value)
	100 ppm (indicative limit value)
România - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm

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acetat de izopentil (123-92-2)	
OEL STEL	540 mg/m ³
	100 ppm
Slovacia - Valori-limită de expunere profesională	
NPHV (OEL TWA)	270 mg/m ³
	50 ppm
NPHV (OEL C)	540 mg/m ³
Slovenia - Valori-limită de expunere profesională	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	270 mg/m ³ (indicative limit value)
	50 ppm (indicative limit value)
VLA-EC (OEL STEL)	540 mg/m ³
	100 ppm
Suedia - Valori-limită de expunere profesională	
NGV (OEL TWA)	270 mg/m ³
	50 ppm
KGV (OEL STEL)	540 mg/m ³
	100 ppm
Norvegia - Valori-limită de expunere profesională	
Grenseverdi (OEL TWA)	260 mg/m ³
	50 ppm
Korttidsverdi (OEL STEL)	325 mg/m ³ (value calculated)
	75 ppm (value calculated)
Elveția - Valori-limită de expunere profesională	
MAK (OEL TWA)	260 mg/m ³ (Pentyl acetate all isomers)
	50 ppm (Pentyl acetate all isomers)
KZGW (OEL STEL)	260 mg/m ³ (Pentyl acetate all isomers)
	50 ppm (Pentyl acetate all isomers)
SUA - ACGIH - Valori-limită de expunere profesională	
ACGIH® TLV® TWA	50 ppm (Pentyl acetate, all isomers)
ACGIH® TLV® STEL	100 ppm (Pentyl acetate, all isomers)
Acetyl Propionyl (600-14-6)	
Germania - Valori-limită de expunere profesională (TRGS 900)	
AGW (OEL TWA)	0,083 mg/m ³
	0,02 ppm
Categorie de substanțe chimice TRGS 900	Observație referitoare la piele, Sensibilizare cutanată

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Acetyl Propionyl (600-14-6)	
Slovenia - Valori-limită de expunere profesională	
OEL TWA	0,083 mg/m ³ 0,02 ppm
OEL STEL	0,083 mg/m ³ 0,02 ppm
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Elveția - Valori-limită de expunere profesională	
MAK (OEL TWA)	0,08 mg/m ³ 0,02 ppm
KZGW (OEL STEL)	0,16 mg/m ³ 0,04 ppm
Categorie de substanțe chimice OEL	Sensitizer, Observație referitoare la piele
Amyl formate (638-49-3)	
Letonia - Valori-limită de expunere profesională	
OEL TWA	10 mg/m ³
Lituania - Valori-limită de expunere profesională	
TPRV (OEL STEL)	10 mg/m ³
Categorie de substanțe chimice OEL	Observație referitoare la piele
Benzyl acetate (140-11-4)	
Belgia - Valori-limită de expunere profesională	
OEL TWA	62 mg/m ³ 10 ppm
Danemarca - Valori-limită de expunere profesională	
OEL TWA	61 mg/m ³ 10 ppm
OEL STEL	122 mg/m ³ 20 ppm
Irlanda - Valori-limită de expunere profesională	
OEL TWA	10 ppm
OEL STEL	30 ppm (calculated)
Letonia - Valori-limită de expunere profesională	
OEL TWA	5 mg/m ³
Lituania - Valori-limită de expunere profesională	
IPRV (OEL TWA)	5 mg/m ³
Portugalia - Valori-limită de expunere profesională	
OEL TWA	10 ppm
Categorie de substanțe chimice OEL	A4 - Not Classifiable as a Human Carcinogen

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Benzyl acetate (140-11-4)	
România - Valori-limită de expunere profesională	
OEL TWA	50 mg/m ³
	8 ppm
OEL STEL	80 mg/m ³
	13 ppm
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	62 mg/m ³
	10 ppm
SUA - ACGIH - Valori-limită de expunere profesională	
ACGIH® TLV® TWA	10 ppm
Categorie de substanțe chimice ACGIH®	Not Classifiable as a Human Carcinogen
acetat de etil (141-78-6)	
UE - Valoare limită de expunere ocupațională orientativă (IOEL)	
IOEL TWA	734 mg/m ³
	200 ppm
IOEL STEL	1468 mg/m ³
	400 ppm
Austria - Valori-limită de expunere profesională	
MAK (OEL TWA)	734 mg/m ³
	200 ppm
MAK (OEL STEL)	1468 mg/m ³
	400 ppm
Belgia - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Bulgaria - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Croația - Valori-limită de expunere profesională	
GVI (OEL TWA)	734 mg/m ³
	200 ppm
KGVI (OEL STEL)	1468 mg/m ³
	400 ppm
Cipru - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³

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acetat de etil (141-78-6)	
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Republica Cehă - Valori-limită de expunere profesională	
PEL (OEL TWA)	700 mg/m ³
Danemarca - Valori-limită de expunere profesională	
OEL TWA	540 mg/m ³
	150 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Estonia - Valori-limită de expunere profesională	
OEL TWA	500 mg/m ³
	150 ppm
OEL STEL	1100 mg/m ³
	300 ppm
Finlanda - Valori-limită de expunere profesională	
HTP (OEL TWA)	730 mg/m ³
	200 ppm
HTP (OEL STEL)	1470 mg/m ³
	400 ppm
Franța - Valori-limită de expunere profesională	
VLEP 8h (OEL TWA)	734 mg/m ³ (restrictive limit)
	200 ppm (restrictive limit)
VLEP CT (OEL STEL)	1468 mg/m ³ (restrictive limit)
	400 ppm (restrictive limit)
Germania - Valori-limită de expunere profesională (TRGS 900)	
AGW (OEL TWA)	730 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar - Valori-limită de expunere profesională	
OEL TWA	200 mg/m ³
	734 ppm
OEL STEL	400 mg/m ³
	1468 ppm
Grecia - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm

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acetat de etil (141-78-6)	
Ungaria - Valori-limită de expunere profesională	
AK (OEL TWA)	734 mg/m ³
CK (OEL STEL)	1468 mg/m ³
Categorie de substanțe chimice OEL	Sensitizer
Irlanda - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Italia - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Letonia - Valori-limită de expunere profesională	
OEL TWA	200 mg/m ³
	54 ppm
Lituania - Valori-limită de expunere profesională	
IPRV (OEL TWA)	500 mg/m ³
	150 ppm
NRV (OEL C)	1100 mg/m ³
	300 ppm
Luxemburg - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Malta - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Țările de Jos - Valori-limită de expunere profesională	
TGG-8u (OEL TWA)	734 mg/m ³
	200 ppm
TGG-15min (OEL STEL)	1468 mg/m ³
	400 ppm
Polonia - Valori-limită de expunere profesională	
NDS (OEL TWA)	734 mg/m ³

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acetat de etil (141-78-6)	
NDSch (OEL STEL)	1468 mg/m ³
Portugalia - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³ (indicative limit value)
	200 ppm (indicative limit value)
OEL STEL	1468 mg/m ³ (indicative limit value)
	400 ppm (indicative limit value)
România - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Slovacia - Valori-limită de expunere profesională	
NPHV (OEL TWA)	734 mg/m ³
	200 ppm
NPHV (OEL C)	1468 mg/m ³
Slovenia - Valori-limită de expunere profesională	
OEL TWA	734 mg/m ³
	200 ppm
OEL STEL	1468 mg/m ³
	400 ppm
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	734 mg/m ³
	200 ppm
VLA-EC (OEL STEL)	1468 mg/m ³
	400 ppm
Suedia - Valori-limită de expunere profesională	
NGV (OEL TWA)	550 mg/m ³
	150 ppm
KGV (OEL STEL)	1100 mg/m ³
	300 ppm
Regatul Unit - Valori-limită de expunere profesională	
WEL TWA (OEL TWA)	734 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	1468 mg/m ³
	400 ppm
Norvegia - Valori-limită de expunere profesională	
Grenseverdi (OEL TWA)	734 mg/m ³
	200 ppm
Korttidsverdi (OEL STEL)	1468 mg/m ³ (value from the regulation)

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acetat de etil (141-78-6)	
	400 ppm (value from the regulation)
Elveția - Valori-limită de expunere profesională	
MAK (OEL TWA)	730 mg/m ³ 200 ppm
KZGW (OEL STEL)	1460 mg/m ³ 400 ppm
SUA - ACGIH - Valori-limită de expunere profesională	
ACGIH® TLV® TWA	400 ppm
formiat de etil (109-94-4)	
Austria - Valori-limită de expunere profesională	
MAK (OEL TWA)	300 mg/m ³ 100 ppm
MAK (OEL STEL)	600 mg/m ³ 200 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele
Belgia - Valori-limită de expunere profesională	
OEL STEL	303 mg/m ³ 100 ppm
Croația - Valori-limită de expunere profesională	
GVI (OEL TWA)	308 mg/m ³ 100 ppm
KGVI (OEL STEL)	462 mg/m ³ 150 ppm
Republica Cehă - Valori-limită de expunere profesională	
PEL (OEL TWA)	300 mg/m ³
Danemarca - Valori-limită de expunere profesională	
OEL TWA	300 mg/m ³ 100 ppm
OEL STEL	600 mg/m ³ 200 ppm
Finlanda - Valori-limită de expunere profesională	
HTP (OEL TWA)	310 mg/m ³ 100 ppm
HTP (OEL STEL)	460 mg/m ³ 150 ppm
Franța - Valori-limită de expunere profesională	
VLEP 8h (OEL TWA)	300 mg/m ³ 100 ppm

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formiat de etil (109-94-4)	
Germania - Valori-limită de expunere profesională (TRGS 900)	
AGW (OEL TWA)	310 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) 100 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Categorie de substanțe chimice TRGS 900	Observație referitoare la piele
Grecia - Valori-limită de expunere profesională	
OEL TWA	300 mg/m ³ 100 ppm
OEL STEL	450 mg/m ³ 150 ppm
Irlanda - Valori-limită de expunere profesională	
OEL TWA	300 mg/m ³ 100 ppm
OEL STEL	100 ppm
Polonia - Valori-limită de expunere profesională	
NDS (OEL TWA)	250 mg/m ³
NDSCh (OEL STEL)	500 mg/m ³
Portugalia - Valori-limită de expunere profesională	
OEL TWA	100 ppm
România - Valori-limită de expunere profesională	
OEL TWA	200 mg/m ³ 66 ppm
OEL STEL	300 mg/m ³ 99 ppm
Slovacia - Valori-limită de expunere profesională	
NPHV (OEL TWA)	310 mg/m ³ 100 ppm
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Slovenia - Valori-limită de expunere profesională	
OEL TWA	310 mg/m ³ 100 ppm
OEL STEL	310 mg/m ³ 100 ppm
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	308 mg/m ³ 100 ppm
Regatul Unit - Valori-limită de expunere profesională	
WEL TWA (OEL TWA)	308 mg/m ³

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formiat de etil (109-94-4)	
	100 ppm
WEL STEL (OEL STEL)	462 mg/m ³
	150 ppm
Norvegia - Valori-limită de expunere profesională	
Grenseverdi (OEL TWA)	150 mg/m ³
	50 ppm
Korttidsverdi (OEL STEL)	187,5 mg/m ³ (value calculated)
	75 ppm (value calculated)
Elveția - Valori-limită de expunere profesională	
MAK (OEL TWA)	310 mg/m ³
	100 ppm
KZGW (OEL STEL)	310 mg/m ³
	100 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele
SUA - ACGIH - Valori-limită de expunere profesională	
ACGIH® TLV® STEL	100 ppm
Categorie de substanțe chimice ACGIH®	Not Classifiable as a Human Carcinogen
2-furaldehidă (98-01-1)	
Austria - Valori-limită de expunere profesională	
MAK (OEL TWA)	20 mg/m ³
	5 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele, Group B Carcinogen
Belgia - Valori-limită de expunere profesională	
OEL TWA	8 mg/m ³
	2 ppm
Categorie de substanțe chimice OEL	Skin
Bulgaria - Valori-limită de expunere profesională	
OEL TWA	10 mg/m ³ (Furfuro)
Croația - Valori-limită de expunere profesională	
GVI (OEL TWA)	8 mg/m ³
	2 ppm
KGVI (OEL STEL)	20 mg/m ³
	5 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele
Republica Cehă - Valori-limită de expunere profesională	
PEL (OEL TWA)	10 mg/m ³
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Danemarca - Valori-limită de expunere profesională	
OEL TWA	7,9 mg/m ³

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2-furaldehidă (98-01-1)	
	2 ppm
OEL STEL	15,8 mg/m ³
	4 ppm
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Estonia - Valori-limită de expunere profesională	
OEL TWA	8 mg/m ³
	2 ppm
OEL STEL	20 mg/m ³
	5 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele
Finlanda - Valori-limită de expunere profesională	
HTP (OEL TWA)	8 mg/m ³
	2 ppm
HTP (OEL STEL)	20 mg/m ³
	5 ppm
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Franța - Valori-limită de expunere profesională	
VLEP CT (OEL STEL)	8 mg/m ³
	2 ppm
Categorie de substanțe chimice OEL	Carcinogen category 2
Franța - Valori-limită biologice	
BLV	Parameter: total Furoic acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
Grecia - Valori-limită de expunere profesională	
OEL TWA	20 mg/m ³
	5 ppm
OEL STEL	40 mg/m ³
	10 ppm
Categorie de substanțe chimice OEL	skin - potential for cutaneous absorption
Ungaria - Valori-limită de expunere profesională	
AK (OEL TWA)	8 mg/m ³
CK (OEL STEL)	20 mg/m ³
Categorie de substanțe chimice OEL	Sensitizer, Potential for cutaneous absorption
Irlanda - Valori-limită de expunere profesională	
OEL TWA	8 mg/m ³
	2 ppm
OEL STEL	20 mg/m ³
	5 ppm

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2-furaldehidă (98-01-1)	
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Letonia - Valori-limită de expunere profesională	
OEL TWA	10 mg/m ³
Lituania - Valori-limită de expunere profesională	
IPRV (OEL TWA)	8 mg/m ³
	2 ppm
TPRV (OEL STEL)	20 mg/m ³
	5 ppm
Categorie de substanțe chimice OEL	Cancerigen, Observație referitoare la piele
Polonia - Valori-limită de expunere profesională	
NDS (OEL TWA)	10 mg/m ³
NDSch (OEL STEL)	25 mg/m ³
Portugalia - Valori-limită de expunere profesională	
OEL TWA	2 ppm
Categorie de substanțe chimice OEL	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure
România - Valori-limită de expunere profesională	
OEL TWA	10 mg/m ³
	2,5 ppm
OEL STEL	15 mg/m ³
	4 ppm
Categorie de substanțe chimice OEL	C2
Slovacia - Valori-limită de expunere profesională	
NPHV (OEL TWA)	7,9 mg/m ³
	2 ppm
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	8 mg/m ³
	2 ppm
Categorie de substanțe chimice OEL	skin - potential for cutaneous absorption
Spania - Valori-limită biologice	
BLV	200 mg/l Parameter: Furoic acid - Medium: urine - Sampling time: end of shift (with hydrolysis)
Suedia - Valori-limită de expunere profesională	
NGV (OEL TWA)	8 mg/m ³
	2 ppm
KGV (OEL STEL)	20 mg/m ³
	5 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele

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2-furaldehidă (98-01-1)	
Regatul Unit - Valori-limită de expunere profesională	
WEL TWA (OEL TWA)	8 mg/m ³
	2 ppm
WEL STEL (OEL STEL)	20 mg/m ³
	5 ppm
Categorie de substanțe chimice WEL	Potential for cutaneous absorption
Norvegia - Valori-limită de expunere profesională	
Grenseverdi (OEL TWA)	8 mg/m ³
	2 ppm
Kortidsverdi (OEL STEL)	16 mg/m ³ (value calculated)
	4 ppm (value calculated)
Categorie de substanțe chimice OEL	Observație referitoare la piele
Elveția - Valori-limită de expunere profesională	
MAK (OEL TWA)	8 mg/m ³
	2 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele
SUA - ACGIH - Valori-limită de expunere profesională	
ACGIH® TLV® TWA	0,2 ppm
Categorie de substanțe chimice ACGIH®	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
SUA - ACGIH - Biological Exposure Indices	
BEI (BLV)	200 mg/l Parameter: Furoic acid with hydrolysis - Medium: urine - Sampling time: end of shift (nonspecific)
acetat de izobutil (110-19-0)	
Austria - Valori-limită de expunere profesională	
MAK (OEL TWA)	241 mg/m ³ (Butyl acetates)
	50 ppm (Butyl acetates)
MAK (OEL STEL)	480 mg/m ³ (Butyl acetate)
	100 ppm (Butyl acetate)
Belgia - Valori-limită de expunere profesională	
OEL TWA	238 mg/m ³
	50 ppm
OEL STEL	712 mg/m ³
	150 ppm
Bulgaria - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm

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acetat de izobutil (110-19-0)	
Croația - Valori-limită de expunere profesională	
GVI (OEL TWA)	241 mg/m ³
	50 ppm
KGI (OEL STEL)	723 mg/m ³
	150 ppm
Cipru - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Republica Cehă - Valori-limită de expunere profesională	
PEL (OEL TWA)	241 mg/m ³
Danemarca - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³ (Butyl acetate, all isomers)
	50 ppm (Butyl acetate, all isomers)
OEL STEL	723 mg/m ³
	150 ppm
Estonia - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Finlanda - Valori-limită de expunere profesională	
HTP (OEL TWA)	240 mg/m ³ (Butyl acetate)
	50 ppm (Butyl acetate)
HTP (OEL STEL)	725 mg/m ³ (Butyl acetate)
	150 ppm (Butyl acetate)
Franța - Valori-limită de expunere profesională	
VLEP 8h (OEL TWA)	241 mg/m ³ (restrictive limit)
	50 ppm (restrictive limit)
VLEP CT (OEL STEL)	723 mg/m ³ (restrictive limit)
	150 ppm (restrictive limit)
Germania - Valori-limită de expunere profesională (TRGS 900)	
AGW (OEL TWA)	300 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	62 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Grecia - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm

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acetat de izobutil (110-19-0)	
OEL STEL	723 mg/m ³
	150 ppm
Ungaria - Valori-limită de expunere profesională	
AK (OEL TWA)	241 mg/m ³
CK (OEL STEL)	723 mg/m ³
Categorie de substanțe chimice OEL	Sensitizer
Irlanda - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³ (calculated)
	150 ppm (calculated)
Italia - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Letonia - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
Lituania - Valori-limită de expunere profesională	
IPRV (OEL TWA)	241 mg/m ³
	50 ppm
TPRV (OEL STEL)	723 mg/m ³
	150 ppm
Luxemburg - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Malta - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Țările de Jos - Valori-limită de expunere profesională	
TGG-8u (OEL TWA)	241 mg/m ³
	50 ppm
TGG-15min (OEL STEL)	723 mg/m ³
	150 ppm

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acetat de izobutil (110-19-0)	
Polonia - Valori-limită de expunere profesională	
NDS (OEL TWA)	240 mg/m ³
NDSch (OEL STEL)	720 mg/m ³
Portugalia - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³ (indicative limit value)
	50 ppm (indicative limit value)
OEL STEL	723 mg/m ³ (indicative limit value)
	150 ppm (indicative limit value)
România - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Slovacia - Valori-limită de expunere profesională	
NPHV (OEL TWA)	241 mg/m ³
	50 ppm
NPHV (OEL C)	723 mg/m ³
Slovenia - Valori-limită de expunere profesională	
OEL TWA	241 mg/m ³
	50 ppm
OEL STEL	723 mg/m ³
	150 ppm
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	241 mg/m ³
	50 ppm
VLA-EC (OEL STEL)	723 mg/m ³
	150 ppm
Suedia - Valori-limită de expunere profesională	
NGV (OEL TWA)	241 mg/m ³
	50 ppm
KGV (OEL STEL)	723 mg/m ³
	150 ppm
Regatul Unit - Valori-limită de expunere profesională	
WEL TWA (OEL TWA)	724 mg/m ³
	150 ppm
WEL STEL (OEL STEL)	903 mg/m ³
	187 ppm
Norvegia - Valori-limită de expunere profesională	
Grenseverdi (OEL TWA)	241 mg/m ³

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acetat de izobutil (110-19-0)	
	50 ppm
Korttidaverdi (OEL STEL)	723 mg/m ³ (value from the regulation)
	150 ppm (value from the regulation)
Elveția - Valori-limită de expunere profesională	
MAK (OEL TWA)	240 mg/m ³
	50 ppm
KZGW (OEL STEL)	720 mg/m ³
	150 ppm
SUA - ACGIH - Valori-limită de expunere profesională	
ACGIH® TLV® TWA	50 ppm (Butyl acetates, all isomers)
ACGIH® TLV® STEL	150 ppm (Butyl acetates, all isomers)
2-metilpropan-1-ol; izo-butanol (78-83-1)	
Austria - Valori-limită de expunere profesională	
MAK (OEL TWA)	150 mg/m ³ (Butanol, all isomers)
	50 ppm (Butanol, all isomers)
MAK (OEL STEL)	600 mg/m ³ (Butanol, all isomers)
	200 ppm (Butanol, all isomers)
Belgia - Valori-limită de expunere profesională	
OEL TWA	154 mg/m ³
	50 ppm
Croația - Valori-limită de expunere profesională	
GVI (OEL TWA)	154 mg/m ³
	50 ppm
KGVII (OEL STEL)	231 mg/m ³
	75 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele
Republica Cehă - Valori-limită de expunere profesională	
PEL (OEL TWA)	300 mg/m ³
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Danemarca - Valori-limită de expunere profesională	
OEL C	150 mg/m ³ (Butanol, all isomers)
	50 ppm (Butanol, all isomers)
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Estonia - Valori-limită de expunere profesională	
OEL TWA	150 mg/m ³
	50 ppm
Finlanda - Valori-limită de expunere profesională	
HTP (OEL TWA)	150 mg/m ³ (Butanol)
	50 ppm (Butanol)

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2-metilpropan-1-ol; izo-butanol (78-83-1)	
HTP (OEL STEL)	230 mg/m ³ (Butanol)
	75 ppm (Butanol)
Categorie de substanțe chimice OEL	Potential for cutaneous absorption
Franța - Valori-limită de expunere profesională	
VLEP 8h (OEL TWA)	150 mg/m ³
	50 ppm
Germania - Valori-limită de expunere profesională (TRGS 900)	
AGW (OEL TWA)	310 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	100 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Grecia - Valori-limită de expunere profesională	
OEL TWA	300 mg/m ³
	100 ppm
OEL STEL	300 mg/m ³
	100 ppm
Irlanda - Valori-limită de expunere profesională	
OEL TWA	150 mg/m ³
	50 ppm
OEL STEL	225 mg/m ³
	75 ppm
Letonia - Valori-limită de expunere profesională	
OEL TWA	10 mg/m ³ (Butyl alcohols)
Lituania - Valori-limită de expunere profesională	
IPRV (OEL TWA)	10 mg/m ³
Categorie de substanțe chimice OEL	Observație referitoare la piele
Polonia - Valori-limită de expunere profesională	
NDS (OEL TWA)	100 mg/m ³
NDSch (OEL STEL)	200 mg/m ³
Portugalia - Valori-limită de expunere profesională	
OEL TWA	50 ppm
România - Valori-limită de expunere profesională	
OEL TWA	100 mg/m ³
	33 ppm
OEL STEL	200 mg/m ³
	66 ppm
Slovacia - Valori-limită de expunere profesională	
NPHV (OEL TWA)	310 mg/m ³
	100 ppm

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2-metilpropan-1-ol; izo-butanol (78-83-1)	
Slovenia - Valori-limită de expunere profesională	
OEL TWA	310 mg/m ³
	100 ppm
OEL STEL	310 mg/m ³
	100 ppm
Spania - Valori-limită de expunere profesională	
VLA-ED (OEL TWA)	154 mg/m ³
	50 ppm
Suedia - Valori-limită de expunere profesională	
NGV (OEL TWA)	150 mg/m ³
	50 ppm
KGV (OEL STEL)	250 mg/m ³
	75 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele
Regatul Unit - Valori-limită de expunere profesională	
WEL TWA (OEL TWA)	154 mg/m ³
	50 ppm
WEL STEL (OEL STEL)	231 mg/m ³
	75 ppm
Norvegia - Valori-limită de expunere profesională	
Takverdi (OEL C)	75 mg/m ³
	25 ppm
Categorie de substanțe chimice OEL	Observație referitoare la piele
Elveția - Valori-limită de expunere profesională	
MAK (OEL TWA)	150 mg/m ³
	50 ppm
KZGW (OEL STEL)	150 mg/m ³
	50 ppm
SUA - ACGIH - Valori-limită de expunere profesională	
ACGIH® TLV® TWA	50 ppm

8.2. Controale ale expunerii

Controale tehnice corespunzătoare

Controale tehnice corespunzătoare:

Ensure good ventilation of the work station.

Echipamentul de protecție personală

Echipament individual de protecție:

Evitați orice expunere care nu este necesară.

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Simbol(uri) pentru echipamentul individual de protecție:



Protejarea ochilor și a feței

Protecția ochilor:

Lentile de protecție chimică sau ochelari de siguranță. Ochelari de protecție

Skin protection

Protecția pielii și a corpului:

A se purta îmbrăcăminte de protecție corespunzătoare

Protecția mâinilor:

Purtați mănuși de protecție.

Protecție respiratorie

Protecție respiratorie:

Purtați o mască autorizată.

Controlul expunerii mediului

Controlul expunerii mediului:

Evitați dispersarea în mediu.

Alte informații:

Nu fumați, nu mâncați și nu beți atunci când folosiți acest produs.

SECȚIUNEA 9: Proprietățile fizice și chimice

9.1. Informații privind proprietățile fizice și chimice de bază

Starea fizică	: Lichidă
Culoare	: Conforms to standard.
Miros	: characteristic.
Pragul de miros	: Nu este disponibil
Punctul de topire	: Neaplicabil
Punctul de solidificare	: Nu este disponibil
Punctul de fierbere	: Nu este disponibil
Inflamabilitatea	: Neaplicabil
Limita inferioară de explozie	: Nu este disponibil
Limita superioară de explozie	: Nu este disponibil
Punctul de inflamabilitate	: 72 °C
Temperatura de autoaprindere	: Nu este disponibil
Temperatura de descompunere	: Nu este disponibil
pH	: Nu este disponibil
Viscozitate, cinematic	: 20,5 mm ² /s
Solubilitate	: Nu este disponibil
Partition coefficient n-octanol/water (Log Kow)	: Nu este disponibil
Presiunea vaporilor	: 0,002476926 mm Hg (calculated value)
Presiunea de vapori la 50 °C	: Nu este disponibil
Densitate	: Nu este disponibil
Densitatea	: Nu este disponibil
Densitatea relativa a vaporilor la 20°C	: Nu este disponibil
Caracteristicile particulei	: Neaplicabil

9.2. Alte informații

Alte caracteristici de siguranță

Conținutul de COV : 16,39765617 % (calculated value)(CARB VOC) (%w/w)

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SECȚIUNEA 10: Stabilitate și reactivitate

10.1. Reactivitate

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Stabilitate chimică

Nestabil.

10.3. Posibilitatea de reacții periculoase

Nestabil.

10.4. Condiții de evitat

Lumina directă a soarelui. Temperaturi foarte ridicate sau foarte scăzute.

10.5. Materiale incompatibile

Strong acids. Baze tari.

10.6. Produși de descompunere periculoși

fume. Monoxide de carbon. Dioxid de carbon.

SECȚIUNEA 11: Informații toxicologice

11.1. Informații privind clasele de pericol definite în Regulamentul (CE) nr. 1272/2008

Toxicitate acută (pe cale orală) : Neclasificat
Toxicitate acută (cale cutanată) : Neclasificat
Toxicitate acută (la inhalare) : Neclasificat

Orange oil (8008-57-9)	
LD50 contact oral la șobolani	4400 mg/kg (Source: NZ_CCID)
LD50 contact dermic la iepuri	> 5000 mg/kg (Source: CHEMVIEW)
Salicilat de benzil (118-58-1)	
LD50 contact oral la șobolani	2227 mg/kg (Source: NLM_CIP)
LD50 orală	2227 mg/kg
LD50 contact dermic la iepuri	> 5000 mg/kg (Source: CHEMVIEW)
Cinnamic aldehyde (104-55-2)	
LD50 contact oral la șobolani	2220 mg/kg (Source: NLM_CIP)
LD50 orală	2220 mg/kg
LD50 contact dermic la iepuri	1260 mg/kg (Source: EPA_HP)
LD50 cale cutanată	1260 mg/kg
Ethylene brassylate (105-95-3)	
LD50 contact oral la șobolani	> 5000 mg/kg (Source: ECHA)
LD50 contact dermic la iepuri	> 5000 mg/kg (Source: ECHA)
Vanillin (121-33-5)	
LD50 contact dermic la iepuri	> 5010 mg/kg (Source: OECD_SIDS)
LD50 cale cutanată	2600 mg/kg

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Eugenol (97-53-0)	
LD50 contact oral la șobolani	1930 mg/kg (Source: NZ_CCID)
LD50 orală	2500 mg/kg greutate corporală
LC50 Inhalare - Șobolan	> 2,58 mg/l/4h
COUMARIN (91-64-5)	
LD50 contact oral la șobolani	> 5000 mg/kg (Source: JAPAN_GHS)
LD50 cutanată la șobolan	293 mg/kg (Source: ECHA_API)
(R)-p-menta-1,8-dienă; d-limonen (5989-27-5)	
LD50 contact oral la șobolani	4400 mg/kg (Source: CHEMVIEW)
LD50 contact dermic la iepuri	> 5 g/kg (Source: CHEMVIEW)
.alpha.-Pinene (80-56-8)	
LD50 contact oral la șobolani	3700 mg/kg (Source: NLM_CIP)
LD50 cutanată la șobolan	> 5000 mg/kg (Source: CHEMVIEW)
.beta.-Pinene (127-91-3)	
LD50 contact oral la șobolani	> 5000 mg/kg (Source: EPA_HP)
LD50 contact dermic la iepuri	> 5000 mg/kg (Source: CHEMVIEW)
Cinnamic alcohol (104-54-1)	
LD50 orală	2000 mg/kg
LD50 contact dermic la iepuri	> 5000 mg/kg (Source: ECHA_API)
Pimento oil (Allspice) (8006-77-7)	
LD50 contact oral la șobolani	3600 mg/kg (Source: NLM_CIP)
Clove Leaf Oil (8000-34-8)	
LD50 contact oral la șobolani	1370 mg/kg (Source: NZ_CCID)
LD50 orală	2650 mg/kg
LD50 contact dermic la iepuri	1200 mg/kg (Source: NLM_CIP)
Acetyl Propionyl (600-14-6)	
LD50 contact oral la șobolani	3 g/kg (Source: NLM_CIP)
LD50 orală	3000 mg/kg
LD50 contact dermic la iepuri	> 2000 mg/kg (Source: NIOSH)
Amyl formate (638-49-3)	
LD50 contact oral la șobolani	> 5 g/kg (Source: NLM_CIP)
LD50 contact dermic la iepuri	> 5000 mg/kg (Source: ECHA_API)
Benzyl acetate (140-11-4)	
LD50 contact oral la șobolani	2490 mg/kg (Source: JAPAN_GHS)
LD50 orală	2490 mg/kg
LD50 contact dermic la iepuri	> 5000 mg/kg (Source: JAPAN_GHS)
benzoat de benzil (120-51-4)	
LD50 contact oral la șobolani	> 2000 mg/kg (Source: ECHA_API)

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benzoat de benzil (120-51-4)	
LD50 orală	1160 mg/kg
LD50 contact dermic la iepuri	4000 mg/kg (Source: NLM_CIP)
acetat de etil (141-78-6)	
LD50 contact oral la șobolani	5620 mg/kg (Source: NLM_CIP)
LD50 contact dermic la iepuri	> 18000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalare - Șobolan [ppm]	4000 ppm/4h
formiat de etil (109-94-4)	
LD50 contact oral la șobolani	1850 mg/kg (Source: JAPAN_GHS)
LD50 orală	1850 mg/kg
LD50 contact dermic la iepuri	> 5000 mg/kg (Source: JAPAN_GHS)
2-furaldehidă (98-01-1)	
LD50 contact oral la șobolani	125 mg/kg (Source: JAPAN_GHS)
LD50 contact dermic la iepuri	500 – 1000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalare - Șobolan	756 mg/m ³ (Exposure time: 1 h Source: WHO)
LC50 Inhalare - Șobolan (Vapori)	1 mg/l
acetat de izobutil (110-19-0)	
LD50 contact oral la șobolani	15400 mg/kg (Source: JAPAN_GHS)
LD50 contact dermic la iepuri	> 17400 mg/kg (Source: NLM_CIP)
2-metilpropan-1-ol; izo-butanol (78-83-1)	
LD50 contact oral la șobolani	2460 mg/kg (Source: NLM_CIP)
LD50 contact dermic la iepuri	3400 mg/kg (Source: NLM_CIP)
LD50 cale cutanată	2460 mg/kg
LC50 Inhalare - Șobolan	> 18,18 mg/l (Exposure time: 6 h Source: ECHA)
Bay oil (8006-78-8)	
LD50 contact oral la șobolani	1800 mg/kg (Source: NLM_CIP)
LD50 orală	1800 mg/kg
Corodarea/iritarea pielii	: Provoacă iritarea pielii.
Lezarea gravă/iritarea ochilor	: Provoacă o iritare gravă a ochilor.
Sensibilizarea căilor respiratorii sau a pielii	: Poate provoca o reacție alergică a pielii.
Mutagenitatea celulelor germinative	: Neclasificat
Cancerigenitatea	: Neclasificat
Eugenol (97-53-0)	
Grupul IARC	3 - Not classifiable
COUMARIN (91-64-5)	
Grupul IARC	3 - Not classifiable
(R)-p-menta-1,8-dienă; d-limonen (5989-27-5)	
Grupul IARC	3 - Not classifiable
Benzyl acetate (140-11-4)	
Grupul IARC	3 - Not classifiable

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2-furaldehidă (98-01-1)	
Grupul IARC	3 - Not classifiable
Toxicitatea pentru reproducere	: Neclasificat
STOT (toxicitatea asupra organelor țintă specifice) – expunere unică	: Neclasificat
Amyl formate (638-49-3)	
STOT (toxicitatea asupra organelor țintă specifice) – expunere unică	Poate provoca iritarea căilor respiratorii.
acetat de etil (141-78-6)	
STOT (toxicitatea asupra organelor țintă specifice) – expunere unică	Poate provoca somnolență sau amețală.
formiat de etil (109-94-4)	
STOT (toxicitatea asupra organelor țintă specifice) – expunere unică	Poate provoca iritarea căilor respiratorii.
2-furaldehidă (98-01-1)	
STOT (toxicitatea asupra organelor țintă specifice) – expunere unică	Poate provoca iritarea căilor respiratorii.
acetat de izobutil (110-19-0)	
STOT (toxicitatea asupra organelor țintă specifice) – expunere unică	Poate provoca somnolență sau amețală.
2-metilpropan-1-ol; izo-butanol (78-83-1)	
STOT (toxicitatea asupra organelor țintă specifice) – expunere unică	Poate provoca iritarea căilor respiratorii. Poate provoca somnolență sau amețală.
STOT (toxicitatea asupra organelor țintă specifice) – expunere repetată	: Neclasificat
Acetyl Propionyl (600-14-6)	
STOT (toxicitatea asupra organelor țintă specifice) – expunere repetată	Poate provoca leziuni ale organelor în caz de expunere prelungită sau repetată.
Pericolul prin aspirare	: Poate fi mortal în caz de înghițire și de pătrundere în căile respiratorii.
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Viscozitate, cinematic	20,5 mm ² /s
beta-Caryophyllene (87-44-5)	
Hidrocarbură	Da
(R)-p-menta-1,8-dienă; d-limonen (5989-27-5)	
Hidrocarbură	Da
.alpha.-Pinene (80-56-8)	
Hidrocarbură	Da
.beta.-Pinene (127-91-3)	
Hidrocarbură	Da
benzoat de benzil (120-51-4)	
Viscozitate, cinematic	7,456 mm ² /s

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11.2. Informații privind alte pericole

Alte informații

Efecte nocive potențiale asupra sănătății umane și simptome posibile : Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite

SECȚIUNEA 12: Informații ecologice

12.1. Toxicitate

Ecologie - aspecte generale : Nociv pentru mediul acvatic cu efecte pe termen lung.

Periculos pentru mediul acvatic, pe termen scurt (acut) : Neclasificat

Periculos pentru mediul acvatic, pe termen lung (cronic) : Nociv pentru mediul acvatic cu efecte pe termen lung.

Salicilat de benzil (118-58-1)

LC50 - Pește [1] 1,03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)

Vanillin (121-33-5)

LC50 - Pește [1] 53 – 61,3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)

LC50 - Pește [2] 88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)

NOEC (acut) 10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight])

Eugenol (97-53-0)

LC50 - Pește [1] 13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)

(R)-p-menta-1,8-dienă; d-limonen (5989-27-5)

LC50 - Pește [1] 0,619 – 0,796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)

LC50 - Pește [2] 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)

.alpha.-Pinene (80-56-8)

LC50 - Pește [1] 0,28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)

EC50 - Crustacee [1] 41 mg/l (Exposure time: 48 h - Species: Daphnia magna)

benzoat de benzil (120-51-4)

LC50 - Pește [1] 2,32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)

NOEC (cronică) 0,168 mg/l

acetat de etil (141-78-6)

LC50 - Pește [1] 220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)

LC50 - Pește [2] 484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: IUCLID)

EC50 - Crustacee [1] 560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

2-furaldehidă (98-01-1)

LC50 - Pește [1] 13,4 – 19,3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)

LC50 - Pește [2] 16,79 – 26,35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)

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acetat de izobutil (110-19-0)	
LC50 - Pește [1]	17 mg/l (Exposure time: 96 h - Species: Oryzias latipes Source: ECHA)
2-metilpropan-1-ol; izo-butanol (78-83-1)	
LC50 - Pește [1]	375 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
LC50 - Pește [2]	1370 – 1670 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacee [1]	1300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacee [2]	1070 – 1933 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistență și degradabilitate

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Persistență și degradabilitate	Nestabil.
Orange oil (8008-57-9)	
Persistență și degradabilitate	Rapid degradabil
Salicilat de benzil (118-58-1)	
Persistență și degradabilitate	Rapid degradabil
Cinnamic aldehide (104-55-2)	
Persistență și degradabilitate	Rapid degradabil
Ethylene brassylate (105-95-3)	
Persistență și degradabilitate	Poate provoca efecte adverse pe termen lung asupra mediului înconjurător.
Vanillin (121-33-5)	
Persistență și degradabilitate	Nestabil.
Eugenol (97-53-0)	
Persistență și degradabilitate	Rapid degradabil
COUMARIN (91-64-5)	
Persistență și degradabilitate	Rapid degradabil
beta-Caryophyllene (87-44-5)	
Persistență și degradabilitate	Rapid degradabil
(R)-p-menta-1,8-dienă; d-limonen (5989-27-5)	
Persistență și degradabilitate	Rapid degradabil
.alpha.-Pinene (80-56-8)	
Persistență și degradabilitate	Rapid degradabil
.beta.-Pinene (127-91-3)	
Persistență și degradabilitate	Rapid degradabil
Cinnamic alcohol (104-54-1)	
Persistență și degradabilitate	Rapid degradabil
Pimento oil (Allspice) (8006-77-7)	
Persistență și degradabilitate	Rapid degradabil

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Clove Leaf Oil (8000-34-8)	
Persistență și degradabilitate	Rapid degradabil
acetat de izopentil (123-92-2)	
Persistență și degradabilitate	Rapid degradabil
Acetyl Propionyl (600-14-6)	
Persistență și degradabilitate	Rapid degradabil
Amyl formate (638-49-3)	
Persistență și degradabilitate	Rapid degradabil
Benzyl acetate (140-11-4)	
Persistență și degradabilitate	Rapid degradabil
benzoat de benzil (120-51-4)	
Persistență și degradabilitate	Poate provoca efecte adverse pe termen lung asupra mediului înconjurător.
acetat de etil (141-78-6)	
Persistență și degradabilitate	Rapid degradabil
formiat de etil (109-94-4)	
Persistență și degradabilitate	Rapid degradabil
2-furaldehidă (98-01-1)	
Persistență și degradabilitate	Rapid degradabil
acetat de izobutil (110-19-0)	
Persistență și degradabilitate	Rapid degradabil
2-metilpropan-1-ol; izo-butanol (78-83-1)	
Persistență și degradabilitate	Rapid degradabil
Bay oil (8006-78-8)	
Persistență și degradabilitate	Rapid degradabil

12.3. Potențial de bioacumulare

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Potențial de bioacumulare	Nestabil.
Orange oil (8008-57-9)	
Partition coefficient n-octanol/water (Log Pow)	$\geq 2,78 - \leq 4,88$
Salicilat de benzil (118-58-1)	
Partition coefficient n-octanol/water (Log Pow)	4
Cinnamic aldehyde (104-55-2)	
Partition coefficient n-octanol/water (Log Pow)	2,1065 (at 25 °C)
Ethylene brassylate (105-95-3)	
Partition coefficient n-octanol/water (Log Pow)	4,3 (at 25 °C (at pH 6.4-7)
Potențial de bioacumulare	Nestabil.

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Vanillin (121-33-5)	
Partition coefficient n-octanol/water (Log Pow)	1,23 (at 22 °C)
Potențial de bioacumulare	Nestabilit.
Eugenol (97-53-0)	
Partition coefficient n-octanol/water (Log Pow)	1,83 (at 30 °C (at pH 5.5))
COUMARIN (91-64-5)	
Partition coefficient n-octanol/water (Log Pow)	≥ 1,91 – ≤ 1,51 (at 25 °C (at pH 7))
beta-Caryophyllene (87-44-5)	
Partition coefficient n-octanol/water (Log Pow)	6,23 (at 25 °C (at pH 7))
(R)-p-menta-1,8-dienă; d-limonen (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4,38 (at 37 °C (at pH 7.2))
.alpha.-Pinene (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4,1
.beta.-Pinene (127-91-3)	
Partition coefficient n-octanol/water (Log Pow)	4,4 (at 25 °C)
Cinnamic alcohol (104-54-1)	
Partition coefficient n-octanol/water (Log Pow)	1,636 (at 27 °C (at pH 3.52))
acetat de izopentil (123-92-2)	
Partition coefficient n-octanol/water (Log Pow)	2,7 (at 35 °C)
Amyl formate (638-49-3)	
Partition coefficient n-octanol/water (Log Pow)	2,786 (at 25 °C)
Benzyl acetate (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1,96 (at 25 °C (at pH 7))
benzoat de benzil (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	3,97 (at 25 °C)
Potențial de bioacumulare	Nestabilit.
acetat de etil (141-78-6)	
BCF - Pește [1]	(30 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	0,73 (at 20 °C (at pH 7))
formiat de etil (109-94-4)	
BCF - Pește [1]	(will not bioconcentrate)
Partition coefficient n-octanol/water (Log Pow)	1,504 (at 25 °C (at pH 4.61))
2-furaldehidă (98-01-1)	
Partition coefficient n-octanol/water (Log Pow)	0,67
acetat de izobutil (110-19-0)	
BCF - Pește [1]	(no significant bioconcentration)
Partition coefficient n-octanol/water (Log Pow)	2,3 (at 25 °C (at pH 7))

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2-metilpropan-1-ol; izo-butanol (78-83-1)

BCF - Pește [1]	(no bioconcentration expected)
Partition coefficient n-octanol/water (Log Pow)	1 (at 25 °C (at pH 7))

12.4. Mobilitate în sol

Nu sunt disponibile informații suplimentare

12.5. Rezultatele evaluărilor PBT și vPvB

Nu sunt disponibile informații suplimentare

12.6. Proprietăți de perturbator endocrin

Nu sunt disponibile informații suplimentare

12.7. Alte efecte adverse

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Alte informații Evitați dispersarea în mediu.

Ethylene brassylate (105-95-3)

Alte informații Evitați dispersarea în mediu.

Vanillin (121-33-5)

Alte informații Evitați dispersarea în mediu.

benzoat de benzil (120-51-4)

Alte informații Evitați dispersarea în mediu.

SECȚIUNEA 13: Considerații privind eliminarea

13.1. Metode de tratare a deșeurilor

Metode de tratare a deșeurilor	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Recomandări pentru eliminarea produsului/ambalajului	: Eliminați într-un mod sigur, în conformitate cu reglementările locale/naționale.
Ecological waste information	: Evitați dispersarea în mediu.
cod HP	: HP5 - «Toxicitate asupra unui organ țintă specific (STOT)/toxicitate prin aspirare»: deșeuri care pot să provoace toxicitate asupra unui organ țintă specific în urma unei expuneri unice sau repetate sau care produce efecte toxice acute în urma aspirării. HP4 - «Iritante – iritarea pielii și leziuni oculare»: deșeuri care, la aplicare, pot să provoace iritarea pielii sau leziuni oculare. HP13 - «Sensibilizante»: deșeuri care conțin una sau mai multe substanțe despre care se știe că produc efecte sensibilizante asupra pielii sau a organelor respiratorii. HP14 - «Ecotoxice»: deșeuri care prezintă sau pot să prezinte riscuri imediate sau întârziate pentru unul sau mai multe sectoare ale mediului înconjurător.

SECȚIUNEA 14: Informații referitoare la transport

Corespunzător cu cerințele: ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. Numărul ONU sau numărul de identificare				
Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil
14.2. Denumirea corectă ONU pentru expediție				
Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil

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ADR	IMDG	IATA	ADN	RID
14.3. Clasa (clasele) de pericol pentru transport				
Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil
14.4. Grupul de ambalare				
Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil
14.5. Pericole pentru mediul înconjurător				
Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil	Neaplicabil
Nu sunt disponibile informații suplimentare				

14.6. Precauții speciale pentru utilizatori

Transportul terestru

Neaplicabil

Transport maritim

Neaplicabil

Transport aerian

Neaplicabil

Transport pe cale fluvială

Neaplicabil

Transport feroviar

Neaplicabil

14.7. Transportul maritim în vrac în conformitate cu instrumentele OMI

Neaplicabil

SECȚIUNEA 15: Informații de reglementare

15.1. Regulamentele/legislația din domeniul securității, al sănătății și al mediului specifice (specifică) pentru substanța sau amestecul în cauză

Reglementări EU

REACH Anexa XVII (Lista substanțelor restricționate)

Lista substanțelor care fac obiectul restricțiilor în UE (Anexa XVII REACH)		
Cod de referință	Aplicabil la	Completați titlul sau descrierea
3(a)	Orange oil ; d-Limonene ; .alpha.-Pinene ; .beta.-Pinene ; Isoamyl acetate ; Acetyl Propionyl ; Amyl formate ; Ethyl acetate ; Ethyl formate ; Furfural ; Isobutyl acetate ; Isobutyl alcohol ; Bay oil	Substanțe sau amestecuri care îndeplinesc criteriile pentru oricare dintre următoarele clase sau categorii de pericol stabilite în anexa I la Regulamentul (CE) nr. 1272/2008: Clasele de pericol 2.1-2.4, 2.6 și 2.7, 2.8 tipurile A și B, 2.9, 2.10, 2.12, 2.13 categoriile 1 și 2, 2.14 categoriile 1 și 2, 2.15 tipurile A-F

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Lista substanțelor care fac obiectul restricțiilor în UE (Anexa XVII REACH)		
Cod de referință	Aplicabil la	Completați titlul sau descrierea
3(b)	PATCHOULI AND BERGAMOT #EU35790F ; Orange oil ; Salicilat de benzil ; Cinnamic aldehyde ; Eugenol ; beta-Caryophyllene ; d-Limonene ; .alpha.-Pinene ; Pimento oil (Allspice) ; Clove Leaf Oil ; Acetyl Propionyl ; Amyl formate ; Benzil benzoat ; Ethyl acetate ; Ethyl formate ; Furfural ; Isobutyl acetate ; Isobutyl alcohol ; Bay oil	Substanțe sau amestecuri care îndeplinesc criteriile pentru oricare dintre următoarele clase sau categorii de pericol stabilite în anexa I la Regulamentul (CE) nr. 1272/2008: Clasele de pericol 3.1-3.6, 3.7 efecte adverse asupra funcției sexuale și fertilității sau asupra dezvoltării, 3.8 alte efecte decât efectele narcotice, 3.9 și 3.10
3(c)	PATCHOULI AND BERGAMOT #EU35790F ; Orange oil ; Salicilat de benzil ; Cinnamic aldehyde ; Ethylene brassylate ; d-Limonene ; .alpha.-Pinene ; Pimento oil (Allspice) ; Benzyl acetate ; Benzil benzoat ; Furfural ; Bay oil	Substanțe sau amestecuri care îndeplinesc criteriile pentru oricare dintre următoarele clase sau categorii de pericol stabilite în anexa I la Regulamentul (CE) nr. 1272/2008: Clasa de pericol 4.1

REACH Anexa XIV (Lista de autorizare)

Nu conține nicio substanță/substanțe listate în Anexa XIV REACH (Lista de autorizare)

REACH Lista substanțelor candidate (SVHC)

Nu conține nicio substanță/substanțe listate în Lista substanțelor candidate REACH

Regulamentul PIC (privind consimțământul prealabil în cunoștință de cauză)

Nu conține nicio substanță/substanțe listate în Lista PIC (Regulamentul UE 649/2012 privind exportul și importul de produse chimice care prezintă risc)

Regulamentul POP (privind poluanții organici persistenți)

Nu conține nicio substanță/substanțe listate în Lista POP (Regulamentul UE 2019/1021 privind poluanții organici persistenți)

Regulamentul privind ozonul (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Regulamentul privind dubla utilizare (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Directiva VOC (2004/42)

Conținutul de COV : 16,39765617 % (calculated value)(CARB VOC) (%w/w)

Regulamentul privind comercializarea și utilizarea precursorilor de explozivi (2019/1148)

Nu conține nicio substanță/substanțe listate în Lista precursorilor de explozibili (Regulamentul UE 2019/1148 privind comercializarea și utilizarea precursorilor de explozibili)

Regulamentul privind precursorii de droguri (273/2004)

Nu conține nicio substanță/substanțe listate în Lista precursorilor de droguri (Regulamentul CE 273/2004 privind producția și punerea pe piață a anumitor substanțe utilizate în producerea ilicită de droguri narcotice și substanțe psihotrope)

Reglementări naționale

Austria

Ordonanța privind otrăvurile din 2000 : Is not subject to the Toxic Substances Ordinance 2000.

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Franța

Boli profesionale	
Cod	Descriere
RG 74	
RG 84	

Germania

Ordonanța VOC (ChemVOCFarbV) : Conținutul de COV : 16,39765617 % (calculated value)(CARB VOC) (%w/w)

Clasa de pericol pentru ape (WGK) : WGK 2, pericol semnificativ pentru apă (Clasificare conform AwSV, Anexa 1).

Lista substanțelor sensibilizante (TRGS 907) : Conține substanțe sensibilizante conform cu TRGS 907.

Ordonanța privind incidentele periculoase (12. BImSchV) : Se supune Ordonanța privind incidentele periculoase (12. BImSchV)

Țările de Jos

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen : Orange oil figurează în listă

SZW-lijst van mutagene stoffen : Orange oil figurează în listă

SZW-lijst van reprotoxische stoffen – Borstvoeding : Niciun compus nu figurează în listă

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : Niciun compus nu figurează în listă

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Niciun compus nu figurează în listă

Danemarca

Class for fire hazard : Clasă III-1

Store unit : 50 litru

Observații cu privire la clasificare : Inflamabil conform Ministerului Justiției din Danemarca; Trebuie urmate îndrumările de gestionare în situații de urgență, privind stocarea lichidelor inflamabile

Reglementări naționale daneze : Tinerii sub vârsta de 18 ani nu sunt autorizați să utilizeze produsul
Femeile gravide/care alăptează care lucrează cu produsul nu trebuie să intre în contact direct cu acesta

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Polonia

Reglementări naționale poloneze

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as ammended)

15.2. Evaluarea securității chimice

No chemical safety assessment has been carried out

SECȚIUNEA 16: Alte informații

Alte informații : Nu există.

Textul integral al frazelor H și EUH:	
Acute Tox. 3 (Inhalare)	Toxicitate acută (inhalare), categoria 3
Acute Tox. 3 (Orală)	Toxicitate acută (orală), categoria 3
Acute Tox. 4 (Dermică)	Toxicitate acută (dermică), categoria 4
Acute Tox. 4 (Inhalare)	Toxicitate acută (inhalare), categoria 4
Acute Tox. 4 (Inhalare:vapori)	Toxicitate acută (inhalare:vapori) Categoria 4
Acute Tox. 4 (Orală)	Toxicitate acută (orală), categoria 4
Aquatic Acute 1	Periculos pentru mediul acvatic – pericol acut, categoria 1
Aquatic Chronic 1	Periculos pentru mediul acvatic – pericol cronic, categoria 1
Aquatic Chronic 2	Periculos pentru mediul acvatic – pericol cronic, categoria 2
Aquatic Chronic 3	Periculos pentru mediul acvatic – pericol cronic, categoria 3
Asp. Tox. 1	Pericol prin aspirare, categoria 1
Carc. 2	Cancerigenitate, categoria 2

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Textul integral al frazelor H și EUH:	
EUH208	Conține {0 message<denumirea substanței sensibilizante> fieldvalue=_SENSITIZER_COMPONENTS}. Poate provoca o reacție alergică.
Eye Dam. 1	Lezarea gravă a ochilor/iritarea ochilor, categoria 1
Eye Irrit. 2	Lezarea gravă a ochilor/iritarea ochilor, categoria 2
Flam. Liq. 1	Lichide inflamabile, categoria 1
Flam. Liq. 2	Lichide inflamabile, categoria 2
Flam. Liq. 3	Lichide inflamabile, categoria 3
Muta. 2	Mutagenitatea celulelor embrionare, categoria 2
Skin Irrit. 2	Corodarea/iritarea pielii, categoria 2
Skin Sens. 1	Sensibilizarea pielii, categoria 1
Skin Sens. 1A	Sensibilizarea pielii, categoria 1A
Skin Sens. 1B	Sensibilizarea pielii, categoria 1B
STOT RE 2	Toxicitate asupra unui organ țintă specific – Expunere repetată, categoria 2
STOT SE 3	Toxicitate asupra unui organ țintă specific – o singură expunere, categoria 3, iritarea căilor respiratorii
H224	Lichid și vapori extrem de inflamabili.
H225	Lichid și vapori foarte inflamabili.
H226	Lichid și vapori inflamabili.
H301	Toxic în caz de înghițire.
H302	Nociv în caz de înghițire.
H304	Poate fi mortal în caz de înghițire și de pătrundere în căile respiratorii.
H312	Nociv în contact cu pielea.
H315	Provoacă iritarea pielii.
H317	Poate provoca o reacție alergică a pielii.
H318	Provoacă leziuni oculare grave.
H319	Provoacă o iritare gravă a ochilor.
H331	Toxic în caz de inhalare.
H332	Nociv în caz de inhalare.
H335	Poate provoca iritarea căilor respiratorii.
H336	Poate provoca somnolență sau amețală.
H341	Susceptibil de a provoca anomalii genetice.
H351	Susceptibil de a provoca cancer.
H373	Poate provoca leziuni ale organelor în caz de expunere prelungită sau repetată.
H400	Foarte toxic pentru mediul acvatic.
H410	Foarte toxic pentru mediul acvatic cu efecte pe termen lung.
H411	Toxic pentru mediul acvatic cu efecte pe termen lung.
H412	Nociv pentru mediul acvatic cu efecte pe termen lung.

Clasificarea respectă

: ATP 12

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Aceste informații se bazează pe stadiul actual al cunoștințelor noastre și au menirea să descrie produsul exclusiv din perspectiva cerințelor privind sănătatea umană, siguranța în utilizare și ecologia. Prin urmare, acest text nu trebuie considerat ca o garanție pentru vreo caracteristică anume a produsului