

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

HUMDAKIN Fragrance Sticks/Refill AMPLE

Creation date	08th December 2022	Version	2.0
Revision date	12th May 2026		

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

1.1. Product identifier HUMDAKIN Fragrance Sticks/Refill AMPLE

Substance / mixture mixture

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

Mixture's intended use

Air freshener.

Main intended use

PC-AIR-1 Air care products for indoor rooms (continuous action)

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	Humdakin ApS
Address	Estrupvej 1, Trige, 8380 Denmark
Phone	+45 70 70 75 70
Email	info@humdakin.com

Competent person responsible for the safety data sheet

Name	Czech Aerosol, a.s.
Email	msds@czechaaerosol.cz

1.4. Emergency telephone number

Poisoning information centre: telephone non-stop : +43 1 406 43 43.

Poisoning information centre, c/o Hôpital Militaire Reine Astrid, Rue Bruyn 1, 1120 Bruxelles, Tel: non-stop +32 070 245 245.

Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

Bispebjerg Hospital, Bispebjerg Bakke 23E, opgang 20 C, Giftlinjen Ring +45 82 12 12 12.

numéro ORFILA : + 33 (0)1 45 42 59 59

Poisoning information centre Freiburg, Mathildenstr. 1, 79106 Freiburg, emergency telephone: +49 761 19 240.

Poisoning information centre, Erfurt, Nordhäuser Straße 74, 99089 Erfurt, Deutschland, tel.: +49 361 730 730.

Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord),

Universitätsmedizin Göttingen, Georg-August-Universität, Robert-Koch-Straße 40, 37075 Göttingen, Tel.: +49 551 19

240. Poisoning information centre, Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen,

Langenbeckstraße 1, Gebäude 601, 55131 Mainz, tel.: + 49 613 119 240. Poisoning information centre, Charité-

Universitätsmedizin, Campus Benjamin Franklin, Hindenburgdamm 30, 12203 Berlin, telephone: +49 30 19240.

Informationszentrale gegen Vergiftungen am Universitätsklinikum Bonn, Zentrum für Kinder- und Jugendmedizin,

Venusberg-Campus 1, 53127 Bonn, Tel.: +49 228 19 240. Poisoning information centre, München, Ismaninger Str.

22, 81675 München, tel.: +49 89 19 240.

National poisoning information centre, Beaumont Hospital, PO Box 1297, Beaumont Road Dublin 9, tel: healthcare professionals: +353 (01) 809 2566 (24 hour service), members of public: +353 (01) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week).

Hosp. Niguarda Ca 'Granda - Milan - +39 02-66101029. CAV National Toxicological Information Center - Pavia - +39

0382-24444. Papa Giovanni XXII Hospital - Bergamo - + 39 800 883300. Az. Osp. "Careggi" U.O. Medical Toxicology

- Florence - +39 055-7947819. CAV Policlinico "A. Gemelli" - Rome - +39 06-3054343. CAV Policlinico "Umberto I" -

Rome - +39 06-49978000. Az. Osp. "A. Cardarelli" - Naples - +39 081-5453333

Pracownia Informacji Toksykologicznej i Analiz Laboratoryjnych Uniwersytet Jagielloński Collegium Medicum

Emergency phone: 12 411 99 99. Poisoning information centre - Emergency phone: 58 682 04 04.

112 - ask for Poisons Information

National Institute of Toxicology, Madrid, Tel: +34 915 620 420.

Norwegian Poison Information Centre: 22 59 13 00.

NVIC +31 (0)88 755 8000, Only for the purpose of informing medical personnel in case of acute intoxications.

Poison Information Center National Institute of Medical Emergency Rua Almirante Barroso, n.º 36 1000-013 Lisbon -

Portugal, Tel: + 351 800 250 250

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 2, H225

Skin Sens. 1, H317

Eye Irrit. 2, H319

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes serious eye irritation. May cause an allergic skin reaction.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

d-limonene

Linalyl acetate

4-tert-butylcyclohexyl acetate

linalool

Heliotropine

Citronellol

cinnamaldehyde

Hazard statements

H225

Highly flammable liquid and vapour.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

Precautionary statements

P102

Keep out of reach of children.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P302+P352

IF ON SKIN: Wash with plenty of water/soap.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

P501

Dispose of contents/container to the hazardous waste collection point.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	<75	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	1
CAS: 34590-94-8 EC: 252-104-2 Registration number: 01-2119450011-60	(2-methoxymethylethoxy)propanol	<4	not classified as dangerous	1
Index: 601-096-00-2 CAS: 5989-27-5 EC: 227-813-5 Registration number: 01-2119529223-47	d-limonene	<1	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	1
CAS: 115-95-7 EC: 204-116-4 Registration number: 01-2119454789-19	Linalyl acetate	<0.5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	
CAS: 32210-23-4 EC: 250-954-9 Registration number: 01-2119976286-24	4-tert-butylcyclohexyl acetate	<0.5	Skin Sens. 1, H317	
Index: 603-235-00-2 CAS: 78-70-6 EC: 201-134-4 Registration number: 01-2119474016-42	linalool	<0.5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	
CAS: 120-57-0 EC: 204-409-7 Registration number: 01-2119983608-21	Heliotropine	<0.5	Skin Sens. 1B, H317 Repr. 2, H361	2
EC: 907-706-6 Registration number: 01-2119965149-27	reaction mass of 4-(2,6,6-trimethylcyclohex-2-ene-1-yl)-but-3-ene-2-one and 4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	<0.5	Aquatic Chronic 2, H411	
CAS: 140-11-4 EC: 205-399-7 Registration number: 01-2119638272-42	Benzyl acetate	<0.25	Aquatic Chronic 3, H412	1
CAS: 60-12-8 EC: 200-456-2 Registration number: 01-2119963921-31	Phenethyl alcohol	<0.25	Acute Tox. 4, H302 Eye Irrit. 2, H319 Specific concentration limit: ATE Oral = 1609,3 mg/kg bw	
CAS: 18479-58-8 EC: 242-362-4 Registration number: 01-2119457274-37	2,6-dimethyl-7-octen-2-ol	<0.25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336	

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Index: 603-101-00-3 CAS: 63500-71-0 EC: 405-040-6 Registration number: 01-0000015458-64	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	<0.25	Eye Irrit. 2, H319	
CAS: 123-11-5 EC: 204-602-6 Registration number: 01-2119977101-43	Anisaldehyde	<0.25	Repr. 2, H361 Aquatic Chronic 3, H412	
CAS: 106-22-9 EC: 203-375-0 Registration number: 01-2119453995-23	Citronellol	<0.2	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	
CAS: 67674-46-8 EC: 266-885-2 Registration number: 01-2120741268-52	Dimethyl-4-isoheptenal dimethyl acetal	<0.2	Skin Irrit. 2, H315 Aquatic Chronic 3, H412	
Index: 605-019-00-3 CAS: 5392-40-5 EC: 226-394-6 Registration number: 01-2119462829-23	citral	<0.1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	1
CAS: 127-91-3 EC: 204-872-5	Beta-pinenes	<0.1	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317	1
Index: 606-155-00-6 CAS: 104-55-2 EC: 203-213-9 Registration number: 01-2119935242-45	cinnamaldehyde	<0.005	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Specific concentration limit: Skin Sens. 1, H317: C ≥ 0.01 %	

Notes

- 1 A substance for which exposure limits are set.
- 2 Drug precursor

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled.

If inhaled

Transfer the affected person to the fresh air and ensure calm environment for body and mind.

If on skin

Remove contaminated clothes. Wash with plenty of soap and water.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

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If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

If inhaled

Not expected.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Evacuate area. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

The mixture is flammable. Remove all ignition sources; provide sufficient ventilation. No smoking. Use personal protective equipment for work. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Evacuate area. Ventilate the room. Prevent other leakage. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only in a well-ventilated area. Do not inhale gases and vapours. Read label before use. To avoid risks to human health and the environment, comply with the instructions for use.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature is from +5°C to +30°C. Store in tightly closed containers in a cool, dry place intended for this purpose. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of reach of children.

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7.3. Specific end use(s)
not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Austria

BGBI. II Nr. 156/2021

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	MAK daily mean	1900 mg/m ³
	MAK daily mean	1000 ppm
	MAK short-term values	3800 mg/m ³
	MAK short-term values	2000 ppm

Austria

BGBI. II Nr. 330/2024

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	MAK daily mean	1900 mg/m ³
	MAK daily mean	1000 ppm
	MAK short-term values	3800 mg/m ³
	MAK short-term values	2000 ppm

Austria

BGBI. II Nr. 330/2024

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	MAK daily mean	307 mg/m ³
	MAK daily mean	50 ppm
	MAK short-term values	614 mg/m ³
	MAK short-term values	100 ppm

Notes

Specific absorption hazard.

Belgium

Royal Decree of 12 JANUARY 2020

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	8h	1907 mg/m ³
	8h	1000 ppm
Benzyl acetate (CAS: 140-11-4)	8h	62 mg/m ³
	8h	10 ppm
Beta-pinenes (CAS: 127-91-3)	8h	20 ppm

Belgium

Royal Decree of 12 JANUARY 2020

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	8h	308 mg/m ³
	8h	50 ppm
citral (CAS: 5392-40-5)	8h	32 mg/m ³

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Belgium

Royal Decree of 12 JANUARY 2020

Substance name (component)	Type	Value
citral (CAS: 5392-40-5)	8h	5 ppm

Notes

The absorption of the agent through the skin, mucous membranes or the eyes is an important part of the total exposure. This recording can be the result of both direct contact and its presence in the air.

Czech Republic

Government Regulation 473/2025 Coll.

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	PEL	1000 mg/m ³
	PEL	522 ppm
	NPK-P	3000 mg/m ³
	NPK-P	1566 ppm

Czech Republic

Government Regulation 473/2025 Coll.

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	PEL	270 mg/m ³
	PEL	43,8 ppm
	NPK-P	550 mg/m ³
	NPK-P	89,3 ppm

Notes

Skin penetration is significantly involved during exposure.

Denmark

BEK No. 1619 of 19/12/2024

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	8h	1900 mg/m ³
	8h	1000 ppm
	15 min	3800 mg/m ³
	15 min	2000 ppm
Benzyl acetate (CAS: 140-11-4)	8h	61 mg/m ³
	8h	10 ppm
	15 min	122 mg/m ³
	15 min	20 ppm
Beta-pinenes (CAS: 127-91-3)	8h	25 ppm
	15 min	50 ppm

Denmark

BEK No. 1619 of 19/12/2024

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	8h	309 mg/m ³
	8h	50 ppm
	15 min	618 mg/m ³
	15 min	100 ppm

Notes

Absorbed by the skin.

Denmark

BEK No. 209 of 13/02/2021

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	8h	1900 mg/m ³
	8h	1000 ppm
	15 min	3800 mg/m ³

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Denmark

BEK No. 209 of 13/02/2021

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	15 min	2000 ppm

Denmark

BEK No. 209 of 13/02/2021

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	8h	309 mg/m ³
	8h	50 ppm
	15 min	618 mg/m ³
	15 min	100 ppm

Notes

Absorbed by the skin.

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OEL 8 hours	308 mg/m ³
	OEL 8 hours	50 ppm

Notes

Skin.

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OEL 8 hours	308 mg/m ³
	OEL 8 hours	50 ppm

Notes

Substantial contribution to the total body burden via dermal exposure possible.

France

Décret n° 2021/1849 du 28 décembre 2021, décret n° 2021/1763 du 23 décembre 2021 et arrêté du 9 décembre 2021

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	VLEP-8h	1900 mg/m ³
	VLEP-8h	1000 ppm
		9500 mg/m ³
		5000 ppm

France

Décret n° 2021/1849 du 28 décembre 2021, décret n° 2021/1763 du 23 décembre 2021 et arrêté du 9 décembre 2021

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	VLEP-8h	308 mg/m ³
	VLEP-8h	50 ppm

Notes

Risk of percutaneous penetration.

Germany

TRGS 900

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	8h	380 mg/m ³
	8h	200 ppm
	Short	1520 mg/m ³
	Short	800 ppm

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Germany

TRGS 900

Substance name (component)	Type	Value
d-limonene (CAS: 5989-27-5)	8h	28 mg/m ³
	8h	5 ppm
	Short	112 mg/m ³
	Short	20 ppm

Notes

Absorbed through the skin.
Skin sensitization.

Germany

TRGS 900

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	8h	310 mg/m ³
	8h	50 ppm
	Short	310 mg/m ³
	Short	50 ppm

Notes

Sum of vapor and aerosols.

Ireland

2024 Chemical Agents and Carcinogens, Mutagens and Reprotoxic
Substances Code of Practice

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	OELV 15 minutes	1000 ppm
Benzyl acetate (CAS: 140-11-4)	OELV 8 hours	10 ppm

Ireland

2024 Chemical Agents and Carcinogens, Mutagens and Reprotoxic
Substances Code of Practice

Substance name (component)	Type	Value
citral (CAS: 5392-40-5)	OELV 8 hours	5 ppm

Notes

Inhalable Fraction and Vapour (IFV) - The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases.

Ireland

2024 Chemical Agents and Carcinogens, Mutagens and Reprotoxic
Substances Code of Practice

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OELV 8 hours	308 mg/m ³
	OELV 8 hours	50 ppm

Notes

Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body.

Italy

D.lgs. 9 aprile 2008, n. 81 (rev. Gennaio 2025)

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	8 hours	308 mg/m ³
	8 hours	50 ppm

Notes

Significant skin absorption.

Malta

ACT XXXIII of 2024

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	TWA	308 mg/m ³

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Malta

ACT XXXIII of 2024

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	TWA	50 ppm

Notes

Skin.

Netherlands

Working conditions regulation 2021

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	TGG (8 hours)	260 mg/m ³
	TGG (15 min)	1900 mg/m ³

Notes

Skin absorption - Substances that can be absorbed relatively easily through the skin, which can make a substantial contribution to the total internal exposure, have an indication in the list. For these substances, in addition to measures against inhalation, adequate measures to prevent skin contact must also be taken.

Netherlands

Working conditions regulation 2025

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	TGG (8 hours)	300 mg/m ³
	TGG (8 hours)	48,7 ppm

Netherlands

Working conditions regulation 2025

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	TGG (8 hours)	260 mg/m ³
	TGG (8 hours)	137 ppm
	TGG (15 min)	1900 mg/m ³
	TGG (15 min)	1000 ppm

Notes

Skin absorption - Substances that can be absorbed relatively easily through the skin, which can make a substantial contribution to the total internal exposure, have an indication in the list. For these substances, in addition to measures against inhalation, adequate measures to prevent skin contact must also be taken.

Norway

FOR-2020-07-02-1479

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	8 hours	950 mg/m ³
	8 hours	500 ppm

Norway

FOR-2024-04-05-581

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	8 hours	950 mg/m ³
	8 hours	500 ppm
Beta-pinenes (CAS: 127-91-3)	8 hours	140 mg/m ³
	8 hours	25 ppm

Norway

FOR-2024-04-05-581

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	8 hours	300 mg/m ³
	8 hours	50 ppm

Notes

Chemicals that can be absorbed through the skin.

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Norway

FOR-2024-04-05-581

Substance name (component)	Type	Value
d-limonene (CAS: 5989-27-5)	8 hours	140 mg/m ³
	8 hours	25 ppm

Notes

Chemicals that should be considered to cause an allergy or other sensitivity to the eyes or respiratory tract, or which should be considered to cause an allergy by skin contact.

Poland

Dz.U. 2024 poz. 1017

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	NDS	1900 mg/m ³
citral (CAS: 5392-40-5)	NDS	27 mg/m ³
	NDSCh	54 mg/m ³

Poland

Dz.U. 2024 poz. 1017

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	NDS	240 mg/m ³
	NDSCh	480 mg/m ³

Notes

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Portugal

Decreto-Lei n.º 1/2021

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	8 hours	308 mg/m ³
	8 hours	50 ppm

Notes

Skin.

Spain

Occupational exposure limits for chemical agents in Spain 2025

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	VLA-EC	1910 mg/m ³
	VLA-EC	1000 ppm
Benzyl acetate (CAS: 140-11-4)	VLA-ED	62 mg/m ³
	VLA-ED	10 ppm

Spain

Occupational exposure limits for chemical agents in Spain 2025

Substance name (component)	Type	Value
citral (CAS: 5392-40-5)	VLA-ED	5 ppm

Notes

Inhalable fraction and vapor. The FIV notation points out those chemical agents that can be present in the work environment, both in the form of particulate matter and vapor, so that the two phases can coexist, contributing both to the exposure.

Sensitizing.

It indicates that at exposures to this substance, the contribution through the dermal route can be significant for the total body content if no measures are taken to prevent absorption. In these situations, it is advisable to use biological control to be able to determine the total amount of the contaminant absorbed. .

Spain

Occupational exposure limits for chemical agents in Spain 2025

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	VLA-ED	308 mg/m ³

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Spain Occupational exposure limits for chemical agents in Spain 2025

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	VLA-ED	50 ppm

Notes

It indicates that at exposures to this substance, the contribution through the dermal route can be significant for the total body content if no measures are taken to prevent absorption. In these situations, it is advisable to use biological control to be able to determine the total amount of the contaminant absorbed. .

Spain Occupational exposure limits for chemical agents in Spain 2025

Substance name (component)	Type	Value
Beta-pinenes (CAS: 127-91-3)	VLA-ED	113 mg/m ³
	VLA-ED	20 ppm

Notes

Sensitizing.

Spain Occupational exposure limits for chemical agents in Spain 2025

Substance name (component)	Type	Value
d-limonene (CAS: 5989-27-5)	VLA-ED	168 mg/m ³
	VLA-ED	30 ppm

Notes

Sensitizing.

It indicates that at exposures to this substance, the contribution through the dermal route can be significant for the total body content if no measures are taken to prevent absorption. In these situations, it is advisable to use biological control to be able to determine the total amount of the contaminant absorbed. .

Sweden AFS 2023:14

Substance name (component)	Type	Value
ethanol (CAS: 64-17-5)	NGV	1000 mg/m ³
	NGV	500 ppm
	KGV	1900 mg/m ³
	KGV	1000 ppm

Notes

Indicative short-term limit value to be used as a recommended maximum value that should not be exceeded.

Sweden AFS 2023:14

Substance name (component)	Type	Value
Beta-pinenes (CAS: 127-91-3)	NGV	150 mg/m ³
	NGV	25 ppm
	KGV	300 mg/m ³
	KGV	50 ppm

Notes

Sensitizing substances that can cause allergy or other hypersensitivity in the skin.

Indicative short-term limit value to be used as a recommended maximum value that should not be exceeded.

Sweden AFS 2023:14

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	NGV	300 mg/m ³
	NGV	50 ppm
	KGV	450 mg/m ³
	KGV	75 ppm

Notes

The substance is easily absorbed through the skin. The limit value is deemed to provide sufficient protection if the skin is protected.

Indicative short-term limit value to be used as a recommended maximum value that should not be exceeded.

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DNEL

ethanol			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	380 mg/m ³	Chronic effects systemic
Workers	Inhalation	1900 mg/m ³	Acute effects local
Workers	Dermal	343 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	114 mg/m ³	Chronic effects systemic
Consumers	Inhalation	950 mg/m ³	Acute effects local
Consumers	Dermal	206 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	87 mg/kg bw/day	Chronic effects systemic

PNEC

ethanol	
Route of exposure	Value
Freshwater environment	0.96 mg/l
Marine water	0.79 mg/l
Water (intermittent release)	2.75 mg/l
Microorganisms in sewage treatment	580 mg/l
Freshwater sediment	3.6 mg/kg of dry substance of sediment
Sea sediments	2.9 mg/kg of dry substance of sediment
Soil (agricultural)	0.63 mg/kg of dry substance of soil
Food chain	380-720 mg/kg of food

8.2. Exposure controls

Follow the usual measures for health protection at work. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

It is not needed. Contaminated skin should be washed thoroughly.

Respiratory protection

Under regular circumstances it is not necessary.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	pale yellow
Odour	according to fragrance
Melting point/freezing point	data not available
ethanol (CAS: 64-17-5)	-114.15 °C
Boiling point or initial boiling point and boiling range	80-90 °C
ethanol (CAS: 64-17-5)	78.3 °C
Flammability	highly flammable
Lower and upper explosion limit	data not available
ethanol (CAS: 64-17-5)	3.3 %
	19 %
Flash point	22 °C

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ethanol (CAS: 64-17-5)	13 °C
Auto-ignition temperature	data not available
ethanol (CAS: 64-17-5)	363-426 °C
Decomposition temperature	data not available
pH	5-8 (undiluted)
Kinematic viscosity	data not available
Viscosity	1-1.5 mPa.s at 20 °C
Solubility in water	partially soluble
Solubility in fats	insoluble
Partition coefficient n-octanol/water (log value)	data not available
ethanol (CAS: 64-17-5)	-0.3 (25°C, pH 7)
Vapour pressure	data not available
ethanol (CAS: 64-17-5)	5.8 kPa at 20 °C
Density and/or relative density	
Density	0.86-0.88 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	applies to solids
Form	liquid

9.2. Other information

Evaporation rate	data not available
Oxidising properties	It is not oxidising.
Explosive properties	The product does not have explosive properties.

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

The product is stable under normal conditions.

10.4. Conditions to avoid

Heating may cause a fire. Even short-time temperatures above 30°C.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Alkali metals.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

ethanol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	1187-15010 mg/kg bw		Rat	
Inhalation (vapor)	LC50	82.1-92.6 mg/l of air	6 hours	Rat	

Phenethyl alcohol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	ATE	1609.3 mg/kg bw			

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Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

ethanol			
Route of exposure	Result	Exposure time	Species
Eye	Irritating		

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Not determined for the mixture.

Acute toxicity

ethanol				
Parameter	Value	Exposure time	Species	Environment
LC50	11.2-14.2 g/l	96 hours	Fish	Fresh water
LC50	5.012 g/l	48 hours	Daphnia	Fresh water
EC50	275 mg/l	72 hours	Algae	Fresh water

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Chronic toxicity

ethanol				
Parameter	Value	Exposure time	Species	Environment
NOEC	>1 mg/l	24 days	Fish	Fresh water
NOEC	>10 mg/l	21 days	Daphnia	Fresh water

12.2. Persistence and degradability

Data not available.

Biodegradability

ethanol				
Parameter	Value	Exposure time	Environment	Result
	>60 %	5 days		Easily biodegradable

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Royal Decree 952/1997 of 20 June, amending the Regulations for the Implementation of Law 20/1986 (Repealed by Act 10/1998), from May 14, Basic Toxic and Hazardous Waste, approved by Royal Decree 833/1988 of 20 July. Act relating to protection against pollution and relating to waste (The Pollution Control Act) of 13 March 1981 no. 6. Law on the placing on the market, return and high-quality recycling of packaging (Packaging Act - VerpackG) of June 9th, 2021, valid from January 1st, 2022. Regulations on recycling and treatment of waste (Waste Regulations). Waste Management (Amendment) Act, No. 36/2001. 10 JULY 1997. - Order of the Walloon Government establishing a waste catalogue. DECREE LAW No. 110/2013. Packaging Management Decree 2014. 14 JUNE 2012. - Waste Ordinance. ACT No. 52/2021. European Union (Packaging) Regulations 2014 (S.I. No. 282 of 2014). Ordinance on the European List of Waste (German Waste Catalogue Ordinance -Verordnung über das Europäische Abfallverzeichnis - AVV). BEK no. 1271 of 06/06/2021 - Executive Order on certain requirements for packaging. Law 11/1997, of April 24, on Packaging and Packaging Waste. BEK No. 2512 of 10/12/2021 - Statutory order on waste. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

20 01 13* Solvents

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

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SECTION 14: Transport information

14.1. UN number or ID number

UN 1170

14.2. UN proper shipping name

ETHANOL SOLUTION

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8. Always transport closed containers in the upright position.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.

33

UN number

1170

Classification code

F1

Safety signs

3



Road transport - ADR

Special provisions

144, 601

Limited quantities

1 L

Excepted quantities

E2

Packaging

Packing instructions

P001, IBC02, R001

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T4

Special provisions

TP1

ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

2

Tunnel restriction code

(D/E)

Special provision for

operation

S2, S20

Railway transport - RID

Special provisions

144, 601

Packaging

Packing instructions

P001, IBC02, R001

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T4

Special provisions

TP1

RID Tanks

Tank code

LGBF

Transport category

0

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Air transport - ICAO/IATA

Packaging instructions for limited amount	Y341
Packaging instructions passenger	353
Cargo packaging instructions	364

Marine transport - IMDG

EmS (emergency plan)	F-E, S-D
MFAG	305

SECTION 15: Regulatory information

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

11 august 2017. - Law on various health-related provisions. DECREE LAW No.88/2015. LBK No. 1084 of 19/09/2017 (Work Environment Act). Prevention Act. DECREE LAW No.61/2010. Ordinance on facilities for handling substances that are hazardous to water (AwSV) of 18 April 2017. The Safety, Health and Welfare at Work (Chemical Agents) (Amendment) Regulations 2021. Protection of Young Persons (Employment) Act (Child Labor Law - JArbSchG). Ordinance on protection against hazardous substances (Hazardous Substances Ordinance - GefStoffV). LBK No. 115 of 26/01/2017 (Chemical Act). Technical Instructions on Air Quality Control. DECREE LAW No.220/2012. 18 JANUARY 2018. - Order of the Government of the Brussels-Capital Region pertaining to the limitation of emissions of certain pollutants into the atmosphere from medium-sized combustion plants. Law 34/2007, of November 15th, on air quality and atmospheric protection. Act on protection against dangerous substances and preparations (Chemicals Act - ChemG). 28 APRIL 2017. - Occupational Well-Being Code. Ordinance to protect the climate from changes caused by the input of certain fluorinated greenhouse gases (Chemicals Climate Protection Ordinance - ChemKlimaschutzV). Law 33/2011, of October 4, General Public Health. Regulation of 1 June 2004 no. 922 relating to restrictions on the use of chemicals and other products hazardous to health and the environment (Product Regulations), as amended. Legislative decree no. 81 of 09 April 2008 on health and safety protection of employees in the workplace. Law 31/1995, of 8 November 1995, on prevention of occupational risks Act on the implementation of occupational safety and health measures to improve workplace safety and health. Legislative Decree No. 200/2011 - Sanctions for the violation of the provisions on the export and import of dangerous chemical substances - Official Gazette no. 283 of 05 December 2011. BEK no 1458 of 13/12/2019 - Decree on limit values for substances and materials. Law 8/2010 of 31 March, which sets out the penalties applicable for any infringement of Regulations (EC) concerning the registration, evaluation, authorisation and restriction of substances and chemical mixture (REACH) and classification, labelling and packaging of substances and mixtures (CLP), which amends it. Health act, 1947. Decree Law No. 81/2009. TRGS 900. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Environmental Management Act (in force from 01.01.2019 to the present). Public Health Act (in force from 01.01.2019 to the present). Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture by the supplier. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to the hazardous waste collection point.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
AGW	Occupational Exposure Limits
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
ATE	Acute toxicity estimate
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MAK	Maximum workplace concentration
NDS	Maximum admissible concentration
NDSCh	Maximum admissible short-term concentration
NOEC	No observed effect concentration
NPK	Maximum admissible concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PEL	Permissible Exposure Limit
PMT	Persistent, mobile and toxic
ppm	Parts per million

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REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 8 December 2022. Changes were made in sections 1, 2, 3, 8, 9, 10, 11, 12, 13, 14, 15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.