AIR FRESHENER REFILL - FRESH LINEN

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 19/02/2015 Revision date: 11/02/2025 Supersedes version of: 26/06/2024 Version: 4.0

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

1.1. Product identifier

Product form : Mixture
Product name : AIR FRESHENER REFILL - FRESH LINEN
UFI : VPT9-WFJX-41KJ-3KG3
Product code : AF102
Type of product : Aerosol
Vaporizer : Aerosol
Product group : End Product

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

Relevant identified uses

Intended for general public
Main use category : Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier
R P R Keeling Limited T/A Keelings Group
38 Main Street
K67 E0A2 Swords, Dublin
Ireland
T +353 (0)1 96 97 657
info@airpure.com

Supplier UK
Airpure International Limited T/A Keelings Group
Airpure House
Parsons Lane, Bury.
BL9 0JT Lancashire
UK
T UK FREEPHONE 0800 005 1010
info@airpure.com, www.airpure.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	112 +356 2545 6508	
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;H229
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause drowsiness or dizziness. Pressurised container: May burst if heated. Extremely flammable aerosol.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02

Signal word (CLP) : Danger

Hazard statements (CLP) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.

Precautionary statements (CLP) : P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F, 50 °C.

EUH-statements : EUH208 - Contains Isoeugenol. May produce an allergic reaction.

Child-resistant fastening : Not applicable

Tactile warning : Not applicable

2.3. Other hazards

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Ethanol (64-17-5), Sodium Benzoate (532-32-1), Propane (74-98-6), Triethanolamine (102-71-6), Isobutane (75-28-5), Diphenylether (101-84-8)(1), Benzyl acetate (140-11-4)(1), Isoeugenol (97-54-1)(1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Ethanol (64-17-5), Sodium Benzoate (532-32-1), Propane (74-98-6), Triethanolamine (102-71-6), Isobutane (75-28-5), Diphenylether (101-84-8)(1), Benzyl acetate (140-11-4)(1), Isoeugenol (97-54-1)(1)

(1) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

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]
Ethanol substance with national workplace exposure limit(s) (BE, FR, GB, HU, NL)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	20 – 50	Flam. Liq. 2, H225
Butane substance with national workplace exposure limit(s) (GB, HU)	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0	20 – 50	Flam. Gas 1A, H220 Press. Gas

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propane substance with national workplace exposure limit(s) (BE)	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5	10 – 20	Flam. Gas 1A, H220 Press. Gas
Isobutane substance with national workplace exposure limit(s) (BE)	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0	10 – 20	Flam. Gas 1A, H220 Press. Gas
Dimethyl ether substance with national workplace exposure limit(s) (GB)	CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8	10 – 20	Flam. Gas 1A, H220 Press. Gas
Sodium Benzoate substance with national workplace exposure limit(s) (BE, FR, GB)	CAS-No.: 532-32-1 EC-No.: 208-534-8 REACH-no: 01-2119460683-35	< 1	Eye Irrit. 2, H319
Triethanolamine substance with national workplace exposure limit(s) (BE, NL)	CAS-No.: 102-71-6 EC-No.: 203-049-8 REACH-no: 01-2119486482-31	< 1	Not classified
Benzyl acetate substance with national workplace exposure limit(s) (BE)	CAS-No.: 140-11-4 EC-No.: 205-399-7	< 1	Aquatic Chronic 3, H412
Isoeugenol	CAS-No.: 97-54-1 EC-No.: 202-590-7 EC Index-No.: 604-094-00-X	< 1	Skin Sens. 1A, H317
Diphenylether substance with national workplace exposure limit(s) (BE, FR, GB, NL); substance with a Community workplace exposure limit	CAS-No.: 101-84-8 EC-No.: 202-981-2	< 1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Isoeugenol	CAS-No.: 97-54-1 EC-No.: 202-590-7 EC Index-No.: 604-094-00-X	(0.01 ≤ C ≤ 100) Skin Sens. 1A; H317

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case.
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 after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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 : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Pressurised container: May burst if heated.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

For emergency responders

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

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

6.4. Reference to other sections

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. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

Hygiene measures : 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 : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool.

Incompatible materials : Direct sunlight. Heat sources. Sources of ignition.

Switzerland

Storage class (LK) : LK 2 - Liquefied or pressurized gases

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

Ethanol (64-17-5)	
Belgium - Occupational Exposure Limits	
OEL TWA	1907 mg/m³
	1000 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	1900 mg/m³
	1000 ppm
VLE (OEL C/STEL)	9500 mg/m³
	5000 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	1900 mg/m³
CK (OEL STEL)	3800 mg/m³
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	260 mg/m³
	136 ppm
TGG-15min (OEL STEL)	1900 mg/m³
	992 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (OEL TWA)	1920 mg/m³
	1000 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL STEL	1000 ppm

Sodium Benzoate (532-32-1)	
Belgium - Occupational Exposure Limits	
OEL TWA	3 mg/m³ 10 mg/m³
France - Occupational Exposure Limits	
VME (OEL TWA)	7 mg/m³ 3.5 mg/m³ (La valeur limite concerne la fraction alvéolaire) 4 mg/m³ 0.9 mg/m³ (La valeur limite concerne la fraction alvéolaire)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	10 mg/m³ 4 mg/m³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2.5 mg/m³ (Inhalable fraction)

Propane (74-98-6)	
Belgium - Occupational Exposure Limits	
OEL TWA	1000 ppm

Butane (106-97-8)	
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	2350 mg/m³
CK (OEL STEL)	9400 mg/m³
United Kingdom - Occupational Exposure Limits	
Local name	Butane
WEL TWA (OEL TWA)	1450 mg/m³
	600 ppm
WEL STEL (OEL STEL)	1810 mg/m³
	750 ppm
Remark	Carc (Capable of causing cancer and/or heritable genetic damage. See paragraphs 49–51), (only applies if Butane contains more than 0.1% of buta-1,3-diene)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Triethanolamine (102-71-6)	
Belgium - Occupational Exposure Limits	
OEL TWA	5 mg/m³
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	5 mg/m³
TGG-15min (OEL STEL)	0 mg/m³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 mg/m³

Isobutane (75-28-5)	
Belgium - Occupational Exposure Limits	
OEL STEL	2370 mg/m³
	980 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL STEL	1000 ppm

Dimethyl ether (115-10-6)	
United Kingdom - Occupational Exposure Limits	
Local name	Dimethyl ether
WEL TWA (OEL TWA)	766 mg/m³
	400 ppm
WEL STEL (OEL STEL)	958 mg/m³
	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Diphenylether (101-84-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	1 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	7 mg/m³
	1 ppm
OEL STEL	14 mg/m³
	2 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	7 mg/m³
	1 ppm
VLE (OEL C/STEL)	14 mg/m³
	2 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	7 mg/m³
	1 ppm
TGG-15min (OEL STEL)	14 mg/m³
	2 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Diphenyl ether
WEL TWA (OEL TWA)	7 mg/m³
	1 ppm
WEL STEL (OEL STEL)	14 mg/m³
	2 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 ppm (Vapor fraction)
ACGIH OEL STEL	2 ppm (Vapor fraction)

Benzyl acetate (140-11-4)	
Belgium - Occupational Exposure Limits	
OEL TWA	62 mg/m³
	10 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 ppm

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment symbol(s):

Eye and face protection

Eye protection:
Safety glasses

Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Protective gloves

Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Gas
Colour	:	Colourless.
Appearance	:	Gas.
Odour	:	Fresh.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	-11.5 °C
Boiling point	:	< 100 °C
Flammability	:	Extremely flammable aerosol.
Explosive properties	:	Pressurised container: May burst if heated.
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	Not applicable
Auto-ignition temperature	:	350 °C
Decomposition temperature	:	Not available
pH	:	6.5
Viscosity, kinematic	:	Not applicable
Solubility	:	Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not applicable
Relative density	:	< 1 (water=1)
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

Information with regard to physical hazard classes

% of flammable ingredients	:	96.78239424 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Contains gas under pressure; may explode if heated.

10.3. Possibility of hazardous reactions

Heating may cause a fire or explosion.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Lack of data)
Acute toxicity (dermal) : Not classified (Lack of data)
Acute toxicity (inhalation) : Not classified (Lack of data)

Ethanol (64-17-5)	
ATE CLP (oral)	10470 mg/kg bodyweight
ATE CLP (dermal)	15800 mg/kg bodyweight

Sodium Benzoate (532-32-1)	
ATE CLP (oral)	2100 mg/kg bodyweight
ATE CLP (dermal)	2000 mg/kg bodyweight
ATE CLP (dust,mist)	5000 mg/m³

Triethanolamine (102-71-6)	
ATE CLP (oral)	6400 mg/kg bodyweight

Diphenylether (101-84-8)	
ATE CLP (oral)	2830 mg/kg bodyweight
ATE CLP (dermal)	4000 mg/kg bodyweight

Benzyl acetate (140-11-4)	
ATE CLP (oral)	2490 mg/kg bodyweight

Isoeugenol (97-54-1)	
ATE CLP (oral)	1560 mg/kg bodyweight

Skin corrosion/irritation : Not classified (Lack of data)
pH: 6.5

Serious eye damage/irritation : Not classified (Lack of data)
pH: 6.5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified (Lack of data)
Carcinogenicity : Not classified (Lack of data)
Reproductive toxicity : Not classified (Lack of data)
STOT-single exposure : Not classified (Lack of data)
STOT-repeated exposure : Not classified (Lack of data)
Aspiration hazard : Not applicable

AIR FRESHENER REFILL - FRESH LINEN	
Vaporizer	Aerosol

Ethanol (64-17-5)	
Viscosity, kinematic	1.527 mm²/s

Propane (74-98-6)	
Viscosity, kinematic	No data available in the literature

Triethanolamine (102-71-6)	
Viscosity, kinematic	830.2 mm²/s (20 °C, Equivalent or similar to OECD 114)

Isobutane (75-28-5)	
Viscosity, kinematic	No data available in the literature

Diphenylether (101-84-8)	
Viscosity, kinematic	Not applicable

Benzyl acetate (140-11-4)	
Viscosity, kinematic	4.265 mm²/s

Isoeugenol (97-54-1)	
Viscosity, kinematic	No data available in the literature

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short–term (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Not classified

12.2. Persistence and degradability

AIR FRESHENER REFILL - FRESH LINEN	
Persistence and degradability	Rapidly degradable

Ethanol (64-17-5)	
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.8 – 0.967 g O_2/g substance
Chemical oxygen demand (COD)	1.7 g O_2/g substance
ThOD	2.1 g O_2/g substance

Sodium Benzoate (532-32-1)	
Persistence and degradability	Readily biodegradable in water.

Propane (74-98-6)	
Persistence and degradability	Readily biodegradable in water.

Butane (106-97-8)	
Persistence and degradability	Rapidly degradable

Triethanolamine (102-71-6)	
Persistence and degradability	Biodegradable in the soil, No inhibition of nitrification, Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O_2/g substance
Chemical oxygen demand (COD)	1.5 g O_2/g substance
ThOD	2.04 g O_2/g substance

Isobutane (75-28-5)	
Persistence and degradability	Readily biodegradable in water.

Dimethyl ether (115-10-6)	
Persistence and degradability	Rapidly degradable

Diphenylether (101-84-8)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.68 – 2 g O_2/g substance
Chemical oxygen demand (COD)	2.19 – 2.5 g O_2/g substance
ThOD	2.63 g O_2/g substance
BOD (% of ThOD)	0.72

Benzyl acetate (140-11-4)	
Persistence and degradability	Readily biodegradable in water.

Isoeugenol (97-54-1)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

Ethanol (64-17-5)	
Partition coefficient n-octanol/water (Log Pow)	-0.32
Bioaccumulative potential	Not bioaccumulative.

Sodium Benzoate (532-32-1)	
Partition coefficient n-octanol/water (Log Pow)	1.88 (Read-across)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Propane (74-98-6)	
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Triethanolamine (102-71-6)	
BCF - Fish [1]	0.4 – 3.9 l/kg (Equivalent or similar to OECD 305, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-1.9 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Isobutane (75-28-5)	
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Diphenylether (101-84-8)	
BCF - Fish [1]	155 – 200 (4 day(s), Oncorhynchus mykiss, Fresh water, Experimental value, Muscles)
Partition coefficient n-octanol/water (Log Pow)	4.21 (Experimental value, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Benzyl acetate (140-11-4)	
BCF - Fish [1]	8 (Pisces, Flow-through system, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	1.96 (Experimental value, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Isoeugenol (97-54-1)	
Partition coefficient n-octanol/water (Log Pow)	2.1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Ethanol (64-17-5)	
Surface tension	22.31 mN/m (20 °C, 100 %)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.2 (log Koc, Experimental value)
Ecology - soil	Highly mobile in soil.

Sodium Benzoate (532-32-1)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.219 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

Propane (74-98-6)	
Surface tension	No data available in the literature
Ecology - soil	Not applicable (gas).

Triethanolamine (102-71-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.06 – 1.27 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.

Isobutane (75-28-5)	
Surface tension	No data available in the literature

Isobutane (75-28-5)	
Ecology - soil	Not applicable (gas).

Diphenylether (101-84-8)	
Surface tension	39 mN/m (25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.3 (log Koc, Experimental value)
Ecology - soil	Low potential for mobility in soil.

Benzyl acetate (140-11-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.4 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Low potential for adsorption in soil.

Isoeugenol (97-54-1)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.829 – 2.834 (log Koc, SRC PCKOCWIN v2.0, Calculated value, Other isomer)
Ecology - soil	Low potential for adsorption in soil.

12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Ethanol (64-17-5), Sodium Benzoate (532-32-1), Propane (74-98-6), Triethanolamine (102-71-6), Isobutane (75-28-5), Diphenylether (101-84-8)(1), Benzyl acetate (140-11-4)(1), Isoeugenol (97-54-1)(1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Ethanol (64-17-5), Sodium Benzoate (532-32-1), Propane (74-98-6), Triethanolamine (102-71-6), Isobutane (75-28-5), Diphenylether (101-84-8)(1), Benzyl acetate (140-11-4)(1), Isoeugenol (97-54-1)(1)

(1) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950

ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document description				
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-D EmS-No. (Spillage): S-U	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	:	5F
Special provisions (ADR)	:	190, 327, 344, 625
Limited quantities (ADR)	:	1l
Excepted quantities (ADR)	:	E0
Packing instructions (ADR)	:	P207, LP02
Special packing provisions (ADR)	:	PP87, RR6, L2
Mixed packing provisions (ADR)	:	MP9
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V14
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV9, CV12
Special provisions for carriage - Operation (ADR)	:	S2
Tunnel restriction code (ADR)	:	D

Transport by sea

Special provisions (IMDG)	:	63, 190, 277, 327, 344, 959
Limited quantities (IMDG)	:	SP277
Excepted quantities (IMDG)	:	E0
Packing instructions (IMDG)	:	P207, LP02
Special packing provisions (IMDG)	:	PP87, L2
Stowage category (IMDG)	:	None
Stowage and handling (IMDG)	:	SW1, SW22
Segregation (IMDG)	:	SG69

Air transport

PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Y203
PCA limited quantity max net quantity (IATA)	:	30kgG
PCA packing instructions (IATA)	:	203
PCA max net quantity (IATA)	:	75kg

CAO packing instructions (IATA)	:	203
CAO max net quantity (IATA)	:	150kg
Special provisions (IATA)	:	A145, A167, A802
ERG code (IATA)	:	10L

Inland waterway transport

Classification code (ADN)	:	5F
Special provisions (ADN)	:	190, 327, 344, 625
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E0
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	VE01, VE04
Number of blue cones/lights (ADN)	:	1

Rail transport

Classification code (RID)	:	5F
Special provisions (RID)	:	190, 327, 344, 625
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P207, LP02
Special packing provisions (RID)	:	PP87, RR6, L2
Mixed packing provisions (RID)	:	MP9
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W14
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW9, CW12
Colis express (express parcels) (RID)	:	CE2
Hazard identification number (RID)	:	23

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)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

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

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 substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Triethanolamine (102-71-6).

Explosives Precursors Regulation (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 (273/2004)

Contains 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

France

Occupational diseases	
Code	Description
RG 49	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines
RG 49 BIS	Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine
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) :

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

Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Ethanol is listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : Ethanol is listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : Ethanol is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Ethanol is listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

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)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
Press. Gas	Gases under pressure
Skin Sens. 1A	Skin sensitisation, category 1A
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Isoeugenol. May produce an allergic reaction.

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.