

Safety Data Sheet

according to Regulation (EC) No 1907/2006

alwitra Klebstoff PUR S750

Revision date: 05.12.2023

Product code: AWT-012

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

1.1. Product identifier

alwitra Klebstoff PUR S750

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

Use of the substance/mixture

Used for bonding of fleece-backed EVALON® and EVALASTIC® roofing and sealing membranes

Uses advised against

Only use for the intended purpose.

The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Company name: alwitra GmbH
 Street: Am Forst 1
 Place: D-54296 Trier-Irsch
 Telephone: 0651 - 9102 - 0
 E-mail (Contact person): pm-ddb@alwitra.de
 Responsible Department: Produkt Management DDB
 national emergency number: +353 1 8092566

1.4. Emergency telephone number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aerosol 1; H222-H229
 Acute Tox. 4; H332
 Skin Irrit. 2; H315
 Eye Irrit. 2; H319
 Resp. Sens. 1; H334
 Skin Sens. 1; H317
 Carc. 2; H351
 STOT SE 3; H335
 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Isocyanic acid, polymethylenepolyphenylene ester

Signal word: Danger

Pictograms:



Hazard statements

H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.

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H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Do not discard content with household waste and forward for disposal according to regional/national guidelines.

Special labelling of certain mixtures

EUH204	Contains isocyanates. May produce an allergic reaction. As from 24 August 2023 adequate training is required before industrial or professional use.
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2.3. Other hazards

Endocrine disrupting properties: Reaction products of phosphoryl trichloride and 2-methyloxirane.
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
Contains isocyanates. May produce an allergic reaction. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

adhesives.
Mixture of substances listed below with harmless additions.

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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester			40 - <80 %
	618-498-9			
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			
1244733-77-4	Reaction products of phosphoryl trichloride and 2-methyloxirane			10 - <20 %
	807-935-0		01-2119486772-26	
	Acute Tox. 4, Aquatic Chronic 3; H302 H412			
115-10-6	dimethyl ether			2,5- <10 %
	204-065-8	603-019-00-8	01-2119472128-37	
	Flam. Gas 1, Press. Gas (Comp.); H220 H280			
75-28-5	Isobutane			1 - < 5 %
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1, Press. Gas (Comp.); H220 H280			
68441-62-3	2-Butyne-1,4-diol, polymer with 2-(chloromethyl)oxirane, brominated, dehydrochlorinated, methoxylated (Molecular weight 450 g/mol)			1 - <2,5 %
	614-503-3		01-2119533103-55	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
108-32-7	propylene carbonate			0.5 - < 1 %
	203-572-1	607-194-00-1	01-2119537232-48	
	Eye Irrit. 2; H319			
111-46-6	2,2'-oxybisethanol; diethylene glycol			0,1 - <0,6 %
	203-872-2	603-140-00-6	01-2119457857-21	
	Acute Tox. 4, STOT RE 2; H302 H373			
106-97-8	Butane			0,1 - <0,3 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Press. Gas (Liq.); H220 H280			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
9016-87-9	618-498-9	Isocyanic acid, polymethylenepolyphenylene ester	40 - <80 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >9400 mg/kg; oral: LD50 = > 10000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 Resp. Sens. 1; H334: >= 0,1 - 100 STOT SE 3; H335: >= 5 - 100	
1244733-77-4	807-935-0	Reaction products of phosphoryl trichloride and 2-methyloxirane	10 - <20 %
		oral: LD50 = 632 mg/kg	
68441-62-3	614-503-3	2-Butyne-1,4-diol, polymer with 2-(chloromethyl)oxirane, brominated, dehydrochlorinated, methoxylated (Molecular weight 450 g/mol)	1 - <2,5 %
		oral: LD50 = 1337 mg/kg	
108-32-7	203-572-1	propylene carbonate	0.5 - < 1 %
		dermal: LD50 = > 23800 mg/kg; oral: LD50 = 34600 mg/kg	
111-46-6	203-872-2	2,2'-oxybisethanol; diethylene glycol	0,1 - <0,6 %
		dermal: LD50 = 11890 mg/kg; oral: LD50 = 1120 mg/kg	
106-97-8	203-448-7	Butane	0,1 - <0,3 %
		inhalation: LC50 = 273000 ppm (gases)	

Further Information

*Isocyanic acid, polymethylenepolyphenylene ester (Polymer)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!
IF exposed or concerned: Get medical advice/attention.

After inhalation

Remove casualty to fresh air and keep warm and at rest. Call a physician immediately.
If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

IF IN EYES: 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.

After ingestion

Rinse mouth immediately and drink plenty of water.
Do NOT induce vomiting.
Call a physician immediately.

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

Cough, Dyspnoea, Asthmatic complaints, Headache, Dizziness.
Allergic reactions, Redness, dryness, inflammation and cracking of the skin.
Nausea, vomiting, diarrhea.
Irritation of the respiratory system. Depression of the central nervous system. Pulmonary oedema

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

Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.
Treat symptomatically.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Sand. Extinguishing powder. Water spray. Fight larger fires with water spray jet or alcohol-resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NO_x). Hydrogen chloride (HCl). Hydrocyanic acid (hydrocyanic acid). Isocyanates.
Vapours can form explosive mixtures with air.
Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.
Suppress gases/vapours/mists with water spray jet.
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Keep away from sources of ignition - No smoking.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Provide adequate ventilation.
Clean contaminated articles and floor according to the environmental legislation. Water, Ethanol, Ammonia (NH₃) (45/50/5 vol.)
Recommended cleaning agent: Acetone

6.4. Reference to other sections

Safe handling: see section 7
Personal precautions: refer to section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Use only outdoors or in a well-ventilated area. Do not breathe mist/vapours/spray.
Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with eyes and skin.
Pressurised container: May burst if heated. Do not pierce or burn, even after use.
Do not empty into drains; dispose of this material and its container in a safe way.

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Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Ensure adequate ventilation of the storage area.

Hints on joint storage

Keep away from oxidizing agents and strongly acidic or alkaline materials.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Avoid ignition sources.

7.3. Specific end use(s)

adhesives. Used for bonding of fleece-backed EVALON® and EVALASTIC® roofing and sealing membranes

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
75-28-5	Butane, all isomers - Isobutane	1000	-		STEL (15 min)	
106-97-8	Butane, all isomers - n-butane	1000	-		STEL (15 min)	
111-46-6	Diethylene glycol	23	100		TWA (8 h)	
115-10-6	Dimethyl ether	1000	1920		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
108-32-7	propylene carbonate			
Worker DNEL, long-term		inhalation	systemic	70,53 mg/m ³
Worker DNEL, long-term		inhalation	local	20 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	17.4 mg/m ³
Consumer DNEL, long-term		inhalation	local	10 mg/m ³

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PNEC values

CAS No	Substance	
Environmental compartment		Value
115-10-6	dimethyl ether	
Freshwater		0,155 mg/l
Marine water		0,016 mg/l
Freshwater sediment		0,681 mg/kg
Marine sediment		0,069 mg/kg
Micro-organisms in sewage treatment plants (STP)		160 mg/l
Soil		0,045 mg/kg
108-32-7	propylene carbonate	
Freshwater		0,9 mg/l
Marine water		0,09 mg/l

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting safety glasses with side shields.

Hand protection

Wear suitable gloves.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended material: NBR (Nitrile rubber)

Thickness of glove material: $\geq 0,7$ mm.

penetration time (maximum wearing period): >480 Min.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

protection suit

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Recommended filtering device for short-term use: like: EN 14387, Filter type AX

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol (liquid)

Colour: grey

Odour: characteristic

Melting point/freezing point: No data available.

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Boiling point or initial boiling point and boiling range:	No data available.
Flammability:	No data available.
Lower explosion limits:	1,7 vol. %
Upper explosion limits:	18,6 vol. %
Flash point:	No data available.
Auto-ignition temperature:	235 °C
Decomposition temperature:	No data available.
pH-Value:	not applicable
Viscosity / kinematic:	No data available.
Water solubility:	completely miscible
Solubility in other solvents	
no data available	
Dissolution rate:	No data available.
Partition coefficient n-octanol/water:	No data available.
Dispersion stability:	No data available.
Vapour pressure:	6000 hPa
(at 23 °C)	
Vapour pressure:	No data available.
Density (at 20 °C):	1,06 g/cm ³
Relative density:	No data available.
Bulk density:	No data available.
Relative vapour density:	No data available.
Particle characteristics:	No data available.

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not explosive, however, formation of explosive mixtures are possible.

Self-ignition temperature

Solid:

No data available.

Gas:

No data available.

Oxidizing properties

No data available.

Other safety characteristics

Solvent content:

0,6%

Viscosity / dynamic:

not applicable

Further Information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactivity under regular conditions.

10.2. Chemical stability

The product is stable under regular conditions.

10.3. Possibility of hazardous reactions

Heating causes rise in pressure with risk of bursting.

Isocyanic acid, polymethylenepolyphenylene ester:

Reacts with water to form carbon dioxide. Risk of bursting. Reactions with substances containing active hydrogen.

Reaction with: Alcohols. Acids. Alkalis (alkalis). amines. Risk of exothermic reaction

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10.4. Conditions to avoid

Oxidizing or alkaline substances
Humidity
Avoid heat, sparks, open flames and other ignition sources.

10.5. Incompatible materials

Oxidising agent, strong. Acid, concentrated. Alkali (lye), concentrated. amines. Alcohols. Water.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Hydrogen chloride (HCl). Hydrocyanic acid (hydrocyanic acid). Isocyanates.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (oral) 2530 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 11,80 mg/l; ATE (inhalation dust/mist) 1,609 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester				
	oral	LD50 > 10000 mg/kg	Rat		
	dermal	LD50 >9400 mg/kg	Rabbit		
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
1244733-77-4	Reaction products of phosphoryl trichloride and 2-methyloxirane				
	oral	LD50 632 mg/kg			
68441-62-3	2-Butyne-1,4-diol, polymer with 2-(chloromethyl)oxirane, brominated, dehydrochlorinated, methoxylated (Molecular weight 450 g/mol)				
	oral	LD50 1337 mg/kg			
108-32-7	propylene carbonate				
	oral	LD50 34600 mg/kg	Rat	GESTIS	
	dermal	LD50 > 23800 mg/kg	Rabbit	GESTIS	
111-46-6	2,2'-oxybisethanol; diethylene glycol				
	oral	LD50 1120 mg/kg			
	dermal	LD50 11890 mg/kg	Rabbit		
106-97-8	Butane				
	inhalation (4 h) gas	LC50 273000 ppm	Rat	GESTIS	

Irritation and corrosivity

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Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Isocyanic acid, polymethylenepolyphenylene ester)

May cause an allergic skin reaction. (Isocyanic acid, polymethylenepolyphenylene ester)

Contains isocyanates. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Isocyanic acid, polymethylenepolyphenylene ester)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Isocyanic acid, polymethylenepolyphenylene ester)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Isocyanic acid, polymethylenepolyphenylene ester)

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards**Endocrine disrupting properties**

Endocrine disrupting properties: Reaction products of phosphoryl trichloride and 2-methyloxirane.

SECTION 12: Ecological information**12.1. Toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester					
	Acute fish toxicity	LC50 mg/l	> 1000	96 h Danio rerio		OECD 203
75-28-5	Isobutane					
	Acute fish toxicity	LC50 mg/l	27,98	96 h fish		
	Acute algae toxicity	ErC50 mg/l	7,71	96 h algae		
111-46-6	2,2'-oxybisethanol; diethylene glycol					
	Acute fish toxicity	LC50 mg/l	> 32000	96 h Gambusia affinis		

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	Isobutane	2,8
108-32-7	propylene carbonate	-0,41
111-46-6	2,2'-oxybisethanol; diethylene glycol	-1,98 (25°C)
106-97-8	Butane	2,89

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12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Disposal according to official regulations.

Do not dispose of residual product with household waste and do not empty into the sink or toilet.

Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

080501 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes not otherwise specified in 08; waste isocyanates; hazardous waste

List of Wastes Code - contaminated packaging

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1950
<u>14.2. UN proper shipping name:</u>	AEROSOLS
<u>14.3. Transport hazard class(es):</u>	2
<u>14.4. Packing group:</u>	-
Hazard label:	2.1



Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	UN 1950
<u>14.2. UN proper shipping name:</u>	AEROSOLS

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14.3. Transport hazard class(es):

2

14.4. Packing group:

-

Hazard label:

2.1



Classification code:

5F

Special Provisions:

190 327 344 625

Limited quantity:

1 L

Excepted quantity:

E0

Marine transport (IMDG)

14.1. UN number or ID number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

Hazard label:

2.1



Special Provisions:

63, 190, 277, 327, 344, 381,959

Limited quantity:

1000 mL

Excepted quantity:

E0

EmS:

F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS, flammable

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

Hazard label:

2.1



Special Provisions:

A145 A167 A802

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y203

Excepted quantity:

E0

IATA-packing instructions - Passenger:

203

IATA-max. quantity - Passenger:

75 kg

IATA-packing instructions - Cargo:

203

IATA-max. quantity - Cargo:

150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

14.6. Special precautions for user

No special precautions known.

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

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EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28, Entry 29, Entry 40, Entry 56, Entry 74, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No. 648/2004 [Detergents regulation]: not applicable

Regulation (EC) No 2019/1021 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

1 - slightly hazardous to water

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Reaction products of phosphoryl trichloride and 2-methyloxirane

dimethyl ether

Isobutane

2-Butyne-1,4-diol, polymer with 2-(chloromethyl)oxirane, brominated, dehydrochlorinated, methoxylated (Molecular weight 450 g/mol)

propylene carbonate

2,2'-oxybisethanol; diethylene glycol

Butane

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,6,7,8,9,10,11,12,13,15,16.

Version 1,00 - Creation - 23.01.2019

Version 2,00 - General update - 07.12.2020

Version 3,00 - General update - 05.12.2023

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Abbreviations and acronyms

Flam. Gas: Flammable gases
 Aerosol: Aerosols
 Press. Gas (Comp.): Compressed gas
 Press. Gas (Liq.): Liquefied gas
 Acute Tox: Acute toxicity
 Skin Irrit: Skin irritation
 Eye Irrit: Eye irritation
 Resp. Sens: Respiratory sensitisation
 Skin Sens: Skin sensitisation
 Carc: Carcinogenicity
 STOT SE: Specific target organ toxicity - single exposure
 STOT RE: Specific target organ toxicity - repeated exposure
 Aquatic Chronic: Chronic aquatic hazard
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act
 CAS: Chemical Abstracts Service
 DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)
 EC: Effective Concentration
 EG: European Community (Europäische Gemeinschaft)
 EN: European Norm
 IATA: International Air Transport Association
 IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk
 ICAO: International Civil Aviation Organization
 IMDG: International Maritime Code for Dangerous Goods
 ISO: Norm of the International Standards Organization
 CLP: Classification, Labeling, Packaging
 IUCLID: International Uniform Chemical Information Database
 LC: Lethal concentration
 LD: Lethal dose
 log Kow: Octanol/water partition coefficient
 MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships
 OECD: Organisation for Economic Co-operation and Development
 PBT: Persistent, bio-cumulative, toxic
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 VOC: Volatile Organic Compounds
 vPvB: very persistent and very bio-cumulative
 WGK: German Water Hazard Class
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 DNEL: Derived No Effect Level
 PNEC: Predicted No Effect Concentration
 TLV: Threshold Limiting Value
 STOT: Specific Target Organ Toxicity
 AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

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Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Acute Tox. 4; H332	Bridging principle "Aerosols"
Skin Irrit. 2; H315	Bridging principle "Aerosols"
Eye Irrit. 2; H319	Bridging principle "Aerosols"
Resp. Sens. 1; H334	Bridging principle "Aerosols"
Skin Sens. 1; H317	Bridging principle "Aerosols"
Carc. 2; H351	Calculation method
STOT SE 3; H335	Bridging principle "Aerosols"
STOT RE 2; H373	Bridging principle "Aerosols"

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH204	Contains isocyanates. May produce an allergic reaction.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)