SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

chemius.net/cMD6e

Product name

7005 Underbody Bitumen Spray

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

Relevant identified uses

No information.

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Manufacturer

SILCO, D.O.O.
Address: Šentrupert 5 a, 3303 Gomilsko, Slovenia
Phone: +386 3 703 3180
Fax: +386 3 703 3188
E-mail: n.cvilak@silco-automotive.com
Point of contact for safety info: Nejc Cvilak

1.4. Emergency telephone number

Emergency

112

Supplier

+386 3 703 3180

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Aerosol 1; H222 Extremely flammable aerosol.
Aerosol 1; H229 Pressurised container: May burst if heated.
Skin Sens. 1; H317 May cause an allergic skin reaction.
STOT SE 3; H336 May cause drowsiness or dizziness.
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Signal word: **Danger**

H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
EUH066 Repeated exposure may cause skin dryness or cracking.
P251 Do not pierce or burn, even after use.
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.
P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F.
P102 Keep out of reach of children.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

2.2.2. Contains:

n-butyl acetate (CAS: 123-86-4, EC: 204-658-1, Index: 607-025-00-1)
colophonium (CAS: 8050-09-7, EC: 232-475-7, Index: 650-015-00-7)

2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
propane	74-98-6 200-827-9 601-003-00-5	12,5-20	Flam. Gas 1; H220		-
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	12,5-20	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066		-
butane *[C]*	106-97-8 203-448-7 601-004-00-0	5-10	Flam. Gas 1; H220		-
isobutane *[C]*	75-28-5 200-857-2 601-004-00-0	5-10	Flam. Gas 1; H220		-
butanone; methylethylketone	78-93-3 201-159-0 606-002-00-3	5-10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		-
ethyl acetate	141-78-6 205-500-4 607-022-00-5	5-10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		-
distillates (petroleum), C6-rich *[P]*	93165-19-6 296-903-4 649-388-00-9	2,5-5	Flam. Liq. 1; H224 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Repr. 1A; H360Df Repr. 2; H361f Repr. 2; H361fd STOT RE 2; H373 Aquatic Chronic 2; H411		-
solvent naphtha (petroleum), light arom. *[P]*	64742-95-6 265-199-0 649-356-00-4	2,5-5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411		-
colophonium	8050-09-7 232-475-7 650-015-00-7	2,5-5	Skin Sens. 1; H317		-
xylene *[C]*	1330-20-7 215-535-7 601-022-00-9	1-2,5	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332		-

Notes for substances:

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
P	The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Immediately consult a doctor. Rinse mouth thoroughly with water. Drink water.

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

Inhalation

Vapours may cause drowsiness and dizziness.

Skin contact

May cause sensitisation by skin contact (symptoms: itching, redness, rashes).
Repeated exposure may cause dry skin or cracked skin.

Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Ingestion

Causes nausea/vomiting and diarrhoea.

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

-

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO_2).
Fire extinguishing powder.
Water spray. Extinguish large fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

-

5.3. Advice for firefighters

Protective actions

Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Emergency procedures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Do not use open fire and keep away all sources of ignition.

6.1.2. For emergency responders

-

6.2. Environmental precautions

In case of release into the environment, inform the relevant authorities. Do not allow product to reach water/drains/sewage systems or permeable soil.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

-

6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor.

6.3.3. Other information

-

6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Pressurized container; protect from sunlight and do not expose to tempratures exceeding 50°C. Do not pierce or burn, even after use. Do not spray onto open flame or glowing body.

Measures to prevent aerosol and dust generation

-

Measures to protect the environment

-

7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Follow safe storage practices for packed compressed gas as described by the Compressed Gas Association or the relevant agency in the country where the product is used.

7.2.2. Packaging materials

-

7.2.3. Requirements for storage rooms and vessels

-

7.2.4. Storage class

-

7.2.5. Further information on storage conditions

-

7.3. Specific end use(s)

Recommendations

-

Industrial sector specific solutions

-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m³ (ppm)	mg/m³	ml/m³ (ppm)	mg/m³		
Benzene (71-43-2)	1	3,25	-	-	Carc, Sk	
Butane (106-97-8)	600	1450	750	1810	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
Butan-2-one (methyl ethyl ketone) (78-93-3)	200	600	300	899	Sk, BMGV	70 µmol butan-2-one/L in urine - Post shift
Butyl acetate (123-86-4)	150	724	200	966		
Ethyl acetate (141-78-6)	200	734	400	1468		
Rosin-based solder flux fume (8050-09-7)	-	0,05	-	0,15	Sen	
Xylene, o-,m-,p- or mixed isomers (1330-20-7)	50	220	100	441	Sk, BMGV	650 mmol methyl hippuric acid/mol creatinine in urine - Post shift

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

8.1.3. DNEL/DMEL values

For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
butanone; methylethylketone (78-93-3)	Consumer	oral	long term (systemic effects)	31 mg/kg	
butanone; methylethylketone (78-93-3)	Consumer	dermal	long term (systemic effects)	412 mg/kg	
butanone; methylethylketone (78-93-3)	Worker	dermal	long term (systemic effects)	1161 mg/kg	
butanone; methylethylketone (78-93-3)	Consumer	inhalation	long term (systemic effects)	106 mg/m³	
butanone; methylethylketone (78-93-3)	Worker	inhalation	long term (systemic effects)	600 mg/m³	
ethyl acetate (141-78-6)	Worker	inhalation	short term (systemic effects)	1468 mg/m³	
ethyl acetate (141-78-6)	Worker	dermal	long term (systemic effects)	63 mg/kg	
ethyl acetate (141-78-6)	Worker	inhalation	long term (systemic effects)	734 mg/m³	
ethyl acetate (141-78-6)	Worker	inhalation	long term (systemic effects)	734 mg/m³	
ethyl acetate (141-78-6)	Consumer	inhalation	short term (systemic effects)	734 mg/m³	
ethyl acetate (141-78-6)	Consumer	inhalation	short term (systemic effects)	734 mg/m³	
ethyl acetate (141-78-6)	Consumer	dermal	long term (systemic effects)	37 mg/kg	
ethyl acetate (141-78-6)	Consumer	inhalation	long term (systemic effects)	367 mg/m³	
ethyl acetate (141-78-6)	Consumer	oral	long term (systemic effects)	4,5 mg/kg	
ethyl acetate (141-78-6)	Consumer	inhalation	long term (systemic effects)	367 mg/m³	
solvent naphtha (petroleum), light arom. (64742-95-6)	Worker	dermal	long term (systemic effects)	25 mg/kg	repeated
solvent naphtha (petroleum), light arom. (64742-95-6)	Worker	oral	long term (systemic effects)	150 mg/m³	repeated
solvent naphtha (petroleum), light arom. (64742-95-6)	Consumer	dermal	long term (systemic effects)	11 mg/kg	repeated
solvent naphtha (petroleum), light arom. (64742-95-6)	Consumer	inhalation	long term (systemic effects)	32 mg/m³	repeated

8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
ethyl acetate (141-78-6)	fresh water	0,26 mg/L	
ethyl acetate (141-78-6)	marine water	0,026 mg/L	
ethyl acetate (141-78-6)	fresh water sediment	0,34 mg/kg	
ethyl acetate (141-78-6)	marine water sediment	0,034 mg/kg	
ethyl acetate (141-78-6)	soil	0,22 mg/kg	

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not breathe vapours/aerosols.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

8.2.2. Personal protective equipment

Eye and face protection

If there is risk of splashing into eyes, wear safety glasses with side shields (EN 166).

Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The penetration time is determined by the protective glove manufacturer and must be observed.

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

Not needed under normal use and adequate ventilation. In case of insufficient ventilation wear suitable respiratory protection.

Thermal hazards

-

8.2.3. Environmental exposure controls

-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

-	**Physical state:**	liquid
-	**Colour:**	according to specification
-	**Odour:**	characteristic

Important health, safety and environmental information

-	**pH**	No information.
-	**Melting point/freezing point**	No information.
-	**Initial boiling point/boiling range**	No information.
-	**Flash point**	≤ 0 °C
-	**Evaporation rate**	No information.
-	**Flammability (solid, gas)**	365 °C
-	**Explosion limits (vol%)**	1,2 – 10,9 vol %
-	**Vapour pressure**	3500 hPa at 20 °C
-	**Vapour density**	No information.
-	**Density**	**Density**: 0,839 g/cm^3 at 20 °C
-	**Solubility**	**Water**: Insoluble
-	**Partition coefficient**	No information.
-	**Auto-ignition temperature**	No information.
-	**Decomposition temperature**	No information.
-	**Viscosity**	No information.
-	**Explosive properties**	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
-	**Oxidising properties**	No information.

9.2. Other information

-	**Weight organic solvents**	62,9 %
-	**Solid contents**	37,1 %
-	**Remarks:**	

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

-

10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3. Possibility of hazardous reactions

-

10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5. Incompatible materials

Not known.

10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
propane (74-98-6)	inhalation	LC_{50}	rat	4 h	658 mg/l		dust/aerosol
n-butyl acetate (123-86-4)	oral	LD_{50}	rat		10770 mg/kg		
n-butyl acetate (123-86-4)	dermal	LD_{50}	rabbit		17600 mg/kg		
n-butyl acetate (123-86-4)	inhalation	LC_{50}	rat	4 h	21,1 mg/l		dust/aerosol
butane (106-97-8)	inhalation	LC_{50}	rat	4 h	658 mg/l		vapour
isobutane (75-28-5)	inhalation	LC_{50}	rat	4 h	658 mg/l		vapour
butanone; methylethylketone (78-93-3)	dermal	LD_{50}	rabbit		6480 mg/kg		
butanone; methylethylketone (78-93-3)	oral	LD_{50}	rat		2737 mg/kg		
butanone; methylethylketone (78-93-3)	inhalation	LC_{50}	rat	4 h	34 mg/l		vapour
ethyl acetate (141-78-6)	oral	LD_{50}	rabbit		5620 mg/kg		
ethyl acetate (141-78-6)	inhalation	LC_{50}	rat	4 h	1600 mg/l		dust/aerosol
ethyl acetate (141-78-6)	inhalation	LC_{50}	rabbit	4 h	18000 ppmV		gas
solvent naphtha (petroleum), light arom. (64742-95-6)	oral	LD_{50}	rat		3592 mg/kg		
solvent naphtha (petroleum), light arom. (64742-95-6)	dermal	LD_{50}	rabbit		3160 mg/kg		
xylene (1330-20-7)	oral	LD_{50}	rat		4300 mg/kg		
xylene (1330-20-7)	dermal	LD_{50}	rabbit		2000 mg/kg		
xylene (1330-20-7)	inhalation	LC_{50}	rat	4 h	22,1 mg/l		vapour

(b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
n-butyl acetate (123-86-4)			Irritating.		
butanone; methylethylketone (78-93-3)			Irritating.		

(c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
n-butyl acetate (123-86-4)			Irritating.		
butanone; methylethylketone (78-93-3)			Irritating.		
ethyl acetate (141-78-6)			Irritating.		

(d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
For product	dermal			Sensitizing.		

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
n-butyl acetate (123-86-4)	inhalation						Irritates respiratory system.		
butane (106-97-8)	inhalation						Inhaling can cause headache, dizziness, drowsiness;		
isobutane (75-28-5)	inhalation						Inhaling can cause headache, dizziness, drowsiness;		
ethyl acetate (141-78-6)	inhalation						Irritates respiratory system.		
xylene (1330-20-7)	inhalation						Irritates respiratory system.		

(i) STOT-repeated exposure

No information.

(j) Aspiration hazard

No information.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
propane (74-98-6)	LC_{50}	0,12 – 693 mg/L	96 h	fish			
n-butyl acetate (123-86-4)	EC_{50}	44 mg/L	48 h	crustacea	*Daphnia magna*		
	LC_{50}	18 mg/L	96 h	fish	*Pimephales promelas*		
	EC_{50}	320 mg/L	96 h	algae			
	LC_{50}	205 mg/L	24 h	crustacea	*Daphnia magna*		
butane (106-97-8)	LC_{50}	24,11 mg/L	96 h	fish		US Environmental Protection Agency's Office of pollution Prevention (2008)	
	LC_{50}	14,22 mg/L	48 h	crustacea		US Environmental Protection Agency's Office of pollution Prevention (2008)	
isobutane (75-28-5)	LC_{50}	27,98 mg/L	96 h	fish		US Environmental Protection Agency's Office of pollution Prevention (2008)	
	LC_{50}	16,33 mg/L	48 h	crustacea		US Environmental Protection Agency's Office of pollution Prevention (2008)	
butanone; methylethylketone (78-93-3)	LC_{50}	3220 mg/L	96 h	fish	*Pimephales promelas*		
	EC_{50}	520 mg/L	48 h	crustacea	*Daphnia magna*		
	LC_{50}	5600 mg/L	96 h	fish	*Gambusia affinis*		
ethyl acetate (141-78-6)	LC_{50}	220 – 250 mg/L	96 h	fish	*Pimephales promelas*		
	LC_{50}	352 – 500 mg/L	96 h	fish	*Oncorhynchus mykiss*		
	EC_{50}	560 mg/L	48 h	daphnia	*Daphnia magna*		
	EC_{50}	3300 mg/L	48 h	algae	*Desmodesmus subspicatus*		
solvent naphtha (petroleum), light arom. (64742-95-6)	LC_{50}	3,77 mg/L	96 h	fish			
	EC_{50}	7,4 mg/L	48 h	crustacea	*Daphnia magna*		
	EC_{50}	150 mg/L	24 h	crustacea	*Daphnia magna*		
xylene (1330-20-7)	LC_{50}	13,5 mg/L	96 h	fish			
	EC_{50}	7,4 mg/L	48 h	crustacea			

12.1.2. Chronic (long-term) toxicity

No information.

12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
propane (74-98-6)	biodegradability	> 60 %	28 days	readily biodegradable		

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

No information.

12.3.2. Bioconcentration factor (BCF)

For components

Substance (CAS Nr.)	Type	Organism	Value	Duration	Evaluation	Method	Remark
propane (74-98-6)	organism		2,3				
butane (106-97-8)	organism		2,3				

12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

No information.

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Do not allow to reach ground water, water courses or sewage system.
Danger to drinking water if even small quantities leak into ground water.
Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.

For components

Substance: n-butyl acetate

Water hazard class 1 (Self-assessment): slightly hazardous for water

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not dispose together with household garbage. Do not allow product to reach drains/sewage systems.

Waste codes / waste designations according to LoW

08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

15 01 04 - metallic packaging
15 01 11* - metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

13.1.2. Waste treatment-relevant information

-

13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

-

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2

14.4. Packing group

Not applicable.

14.5. Environmental hazards

NO.

14.6. Special precautions for user

Limited quantities

1 L

Tunnel restriction code

(D)

IMDG flashpoint

0 °C, c.c.

IMDG EmS

F-D, S-U

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Goods may not be carried in bulk in bulk containers, containers or vehicles.

SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Indication of changes

-

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC_{50} - Lethal Concentration to 50 % of a test population
LD_{50} - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

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List of relevant H phrases

H220 Extremely flammable gas.
H224 Extremely flammable liquid and vapour.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H360Df May damage the unborn child. Suspected of damaging fertility.
H361f Suspected of damaging fertility.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure .
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

- ☑ Provided correct labelling of the product
- ☑ Compliance with the local legislation
- ☑ Provided correct classification of the product
- ☑ Provided adequate transport data

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.