

**AL SPRAY**

Creation date	12. November 2014	Version	2.1
Revision date	14. November 2017		

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

- 1.1. Product identifier** AL SPRAY  
Substance / mixture mixture  
Number 1 02.0004
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
mixture's intended use Spray varnish (aluminium in spray).
- The use descriptors**  
SU 3 Industrial uses: Uses of substances as such or in preparations\* at industrial sites  
SU 22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
PROC 7 Industrial spraying  
PROC 11 Non industrial spraying
- Disapproved uses of mixture For professional use only.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
Name or trade name RETECH, s.r.o.  
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00  
Czech Republic  
Identification number (ID) 25018205  
Phone +420327596428  
E-mail info@retech.cz  
Web address www.retech.com
- Competent person responsible for the safety data sheet**  
Name RETECH, s.r.o.  
E-mail info@retech.cz
- 1.4. Emergency telephone number**  
National Health Service (NHS) 111  
National poisoning information centre Scotland, NHS 24: 111  
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)

**SECTION 2: Hazards identification****2.1. Substance or mixture classification****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Aerosol 1, H222, H229  
Eye Irrit. 2, H319  
STOT SE 3, H336  
Aquatic Chronic 3, H412

Full text of all classifications and H-phrases is given in the section 16.

**Most serious adverse physico-chemical effects**

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

**Most serious adverse effects on human health and the environment**

Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

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**2.2. Label elements**

**Hazard pictogram**



**Signal word**

Danger

**Hazardous substances**

acetone

**Hazard statements**

- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- 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.
- P261 Avoid breathing mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- 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.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403 Store in a well-ventilated place.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents/container to in accordance with national regulations.

**Supplemental information**

EUH 066 Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

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

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Mixture of substances and additives specified below.

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

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	25-50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane (containing < 0,1 % butadiene (203-450-8))	10-25	Flam. Gas 1, H220 Press. Gas, H280	
CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	10-25	Flam. Gas 1, H220 Press. Gas, H280	
CAS: 64742-95-6 EC: 265-199-0	Solvent naphtha (petroleum), light arom.	3-10	Flam. Liq. 3, H226 Asp. Tox. 1, H304	
CAS: 95-63-6 EC: 202-436-9	1,2,4-trimethylbenzene	3-10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 2, H411	1
CAS: 7429-90-5 EC: 231-072-3	aluminium powder (stabilised)	2,5-3	Flam. Sol. 1, H228	
CAS: 1330-20-7 EC: 215-535-7 Registration number: 01-2119488216-32	xylene (mixture of isomers)	2,5-3	Flam. Liq. 3, H226 Acute Tox. 4, H312, H332 Skin Irrit. 2, H315	1
CAS: 64742-48-9 EC: 265-150-3 Registration number: 01-2119463258-33	Naphtha (petroleum), hydrotreated heavy	1-2,5	Asp. Tox. 1, H304	
Index: 601-025-00-5 CAS: 108-67-8 EC: 203-604-4	1,3,5-trimethylbenzene	0,3-1	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411 Specific concentration limit: STOT SE 3, H335: C ≥ 25 %	1
CAS: 98-82-8 EC: 202-704-5	cumene	0,3-1	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 Aquatic Chronic 2, H411	1

**Notes**

1 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and H-phrases is given in the section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**Inhalation**

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

**Skin contact**

Generally the product does not irritate the skin.

**Eye contact**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

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**Ingestion**

DO NOT INDUCE VOMITING! Provide medical treatment.

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

not available

**Skin contact**

not available

**Eye contact**

not available

**Ingestion**

not available

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

not available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

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

**Unsuitable extinguishing media**

Water - full jet.

**5.2. Special hazards arising from the substance or mixture**

not available

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide sufficient ventilation. Use personal protective equipment for work. Keep unprotected persons away.

**6.2. Environmental precautions**

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

**6.3. Methods and material for containment and cleaning up**

Provide sufficient ventilation.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Do not spray on an open flame or other ignition source. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. Take precautionary measures against static discharge. Pressurised container: May burst if heated. Keep away from sources of heating, ignition and direct sunlight. Do not pierce or burn, even after use.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep cool. Observe official regulations on storing packagings with pressurized containers.

Storage class

2B - Aerosols

**The specific requirements or rules relating to the substance/mixture**

Store in tightly closed containers in a cool, dry place intended for this purpose. Keep away from sources of heating, ignition and direct sunlight.

**7.3. Specific end use(s)**

not available

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**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

**European Union**

Substance name (component)	Type	Time of exposure	Value	Note	Source
acetone (CAS: 67-64-1)	OEL	8 hours	1210 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	500 ppm		
1,2,4-trimethylbenzene (CAS: 95-63-6)	OEL	8 hours	100 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	20 ppm		
xylene (mixture of isomers) (CAS: 1330-20-7)	OEL	8 hours	221 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	50 ppm		
	OEL	Short-term	442 mg/m <sup>3</sup>		
	OEL	Short-term	100 ppm		
1,3,5-trimethylbenzene (CAS: 108-67-8)	OEL	8 hours	100 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	20 ppm		
cumene (CAS: 98-82-8)	OEL	8 hours	100 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	20 ppm		
	OEL	Short-term	250 mg/m <sup>3</sup>		
	OEL	Short-term	50 ppm		

**United Kingdom of Great Britain and Northern Ireland**

Substance name (component)	Type	Time of exposure	Value	Note	Source
acetone (CAS: 67-64-1)	WEL	8 hours	1210 mg/m <sup>3</sup>		GBR
	WEL	15 minutes	3620 mg/m <sup>3</sup>		
	WEL	8 hours	500 ppm		
	WEL	15 minutes	1500 ppm		
butane (containing < 0,1 % butadiene (203-450-8)) (CAS: 106-97-8)	WEL	8 hours	600 ppm		GBR
	WEL	8 hours	1450 mg/m <sup>3</sup>		
	WEL	15 minutes	1810 mg/m <sup>3</sup>		
	WEL	15 minutes	750 ppm		
aluminium powder (stabilised) (CAS: 7429-90-5)	WEL	8 hours	10 mg/m <sup>3</sup>	Inhalable dust, Metal	GBR

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**United Kingdom of Great Britain and Northern Ireland**

Substance name (component)	Type	Time of exposure	Value	Note	Source
aluminium powder (stabilised) (CAS: 7429-90-5)	WEL	8 hours	4 mg/m <sup>3</sup>	Respirable dust, Metal	GBR
xylene (mixture of isomers) (CAS: 1330-20-7)	WEL	8 hours	220 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
	WEL	15 minutes	441 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	8 hours	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	15 minutes	100 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
cumene (CAS: 98-82-8)	WEL	8 hours	125 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
	WEL	15 minutes	250 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	8 hours	25 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	15 minutes	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	

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**DNEL**

acetone

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Consumers	Oral	62 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	62 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	186 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	2420 mg/m <sup>3</sup>	Local acute effects	
Consumers	Inhalation	200 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Inhalation	1210 mg/m <sup>3</sup>	Systemic chronic effects	

xylene (mixture of isomers)

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Workers	Inhalation	221 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Dermal	212 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	65.3 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	12.5 mg/kg bw/day	Systemic chronic effects	

**PNEC**

acetone

Route of exposure	Value	Determining the value of
Freshwater sediment	30.4 mg/kg	
Seawater	1.06 mg/l	
Sea sediments	3.04 mg/kg	
Soil (agricultural)	29.5 mg/kg	
Freshwater environment	10.6 mg/l	
Microorganisms in wastewater treatment plants	100 mg/l	

xylene (mixture of isomers)

Route of exposure	Value	Determining the value of
Freshwater environment	0.327 mg/kg	
Seawater	0.327 mg/l	
Microorganisms in wastewater treatment plants	6.58 mg/l	
Freshwater sediment	12.46 mg/kg bw/day	
Sea sediments	12.46 mg/kg bw/day	
	2.31 mg/kg of dry substance of soil	

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**8.2. Exposure controls**

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

**Eye/face protection**

Tightly sealed goggles.

**Skin protection**

Protection of hands: Solvent resistant gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves: Nitrile rubber, NBR. Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other protection: protective workwear.

**Respiratory protection**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter AX/P2.

**Thermal hazard**

Not available.

**Environmental exposure controls**

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

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance	aerosol
Physical state	no data available at 20°C
color	silver
Odour	after solvents
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	-44 °C
Flash point	-97 °C
Evaporation rate	data not available
Flammability (solid, gas)	Extremely flammable aerosol.
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	
bottom	0.7 %
upper	13.0 %
Vapour pressure	4 Bar at 20 °C
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	almost insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	The product does not have explosive properties but can be explosive when blended with air.
Oxidising properties	data not available
data not available	

**9.2. Other information**

Density	0.72 g/cm <sup>3</sup> at 20 °C
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ignition temperature	365 °C
content of organic solvents (VOC)	94.2 %
solid content (dry matter)	5.8 % % volume
Max. VOC content in the product in its ready to use condition	679.0 g/l
Product is not selfigniting.	

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

not available

**10.2. Chemical stability**

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

**10.3. Possibility of hazardous reactions**

Unknown.

**10.4. Conditions to avoid**

not available

**10.5. Incompatible materials**

not available

**10.6. Hazardous decomposition products**

Unknown.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

1,2,4-trimethylbenzene

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>3500 mg/kg		Rat	
Dermal	LD <sub>50</sub>	3160 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	18 mg/l	4 hour	Rat	

acetone

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	5800 mg/kg		Rat	
Dermal	LD <sub>50</sub>	7800 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>20 mg/l	4 hour	Rat	

Naphtha (petroleum), hydrotreated heavy

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>5000 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>3000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>4951 mg/l	4 hour	Rat	

Solvent naphtha (petroleum), light arom.

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>6800 mg/kg		Rat	

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Solvent naphtha (petroleum), light arom.

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Dermal	LD <sub>50</sub>	>3400 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>10.2 mg/l	4 hour	Rat	

xylene (mixture of isomers)

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	4300 mg/kg		Rat	
Dermal	LD <sub>50</sub>	2000 mg/kg		Rabbit	

**Skin corrosion/irritation**

Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**Reproductive toxicity**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - single exposure**

May cause drowsiness or dizziness.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**

Harmful to aquatic life with long lasting effects.

1,2,4-trimethylbenzene

Parameter	Value	Time of exposure	Species	Environment
EC <sub>50</sub>	3.6 mg/l	48 hour	Invertebrates (Daphnia magna)	
LC <sub>50</sub>	7.72 mg/l	96 hour	Fishes (Pimephales promelas)	

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acetone

Parameter	Value	Time of exposure	Species	Environment
EC <sub>50</sub>	8800 mg/l	48 hour	Invertebrates (Daphnia magna)	
EC <sub>50</sub>	8300 mg/l	96 hour	Fishes	

Naphtha (petroleum), hydrotreated heavy

Parameter	Value	Time of exposure	Species	Environment
EL 0	1000 mg/l	48 hour	Invertebrates (Daphnia magna)	
EL 0	1000 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
LL 0	1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	

xylene (mixture of isomers)

Parameter	Value	Time of exposure	Species	Environment
EC <sub>50</sub>	3.2-9.5 mg/l	48 hour	Invertebrates (Daphnia magna)	
LC <sub>50</sub>	8.9-16.4 mg/l	96 hour	Fishes (Pimephales promelas)	

**12.2. Persistence and degradability**

Not available.

**12.3. Bioaccumulative potential**

Not available.

**12.4. Mobility in soil**

Not available.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

Ecotoxicological effects: Remark: Toxic for fish

Additional ecological information:

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste.

**Legislation of waste**

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Code of type of waste**

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

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**Packaging waste type code**

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

**SECTION 14: Transport information****14.1. UN number**

UN 1950

**14.2. UN proper shipping name**

AEROSOLS

**14.3. Transport hazard class(es)**

2 Gases

**14.4. Packing group**

not available

**14.5. Environmental hazards**

No

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

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

not available

**Additional information**

Hazard identification No.

UN number

Classification code

Safety signs

	(Kemler Code)
<b>1950</b>	

5F

2.1

**Marine transport - IMDG**

EmS (emergency plan)

Marine pollution

F-D, S-U

No

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

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**15.2. Chemical safety assessment**

not available

**SECTION 16: Other information****A list of standard risk phrases used in the safety data sheet**

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Guidelines for safe handling used in the safety data sheet**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P211	Do not spray on an open flame or other ignition source.
P273	Avoid release to the environment.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist/vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403	Store in a well-ventilated place.
P501	Dispose of contents/container to in accordance with national regulations.

**A list of additional standard phrases used in the safety data sheet**

EUH 066	Repeated exposure may cause skin dryness or cracking.
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**Other important information about human health protection**

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

**Key to abbreviations and acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances

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EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Aerosol	Flammable aerosol
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

**Training guidelines**

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

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

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REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**Statement**

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