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

1.1. Product identifier

Product name

6500 Multi Alu

chemius.net/qt1df

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)

Flam. Liq. 3; H226 Flammable liquid and vapour.
Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
Repr. 2; H361d Suspected of damaging the unborn child.
STOT RE 1; H372 Causes damage to organs (hearing organs) through prolonged or repeated exposure (inhalation).

2.2 Label elements

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

Signal word: **Danger**

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs (hearing organs) through prolonged or repeated exposure (inhalation).
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

2.2.2. Contains:

styrene (CAS: 100-42-5, EC: 202-851-5, Index: 601-026-00-0)

2.2.3. Special provisions

EUH205: Contains epoxy constituents. May produce an allergic reaction.

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.
styrene	100-42-5 202-851-5 601-026-00-0	10-<20	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 Repr. 2; H361d STOT RE 1; H372 Aquatic Chronic 3; H412		01-2119457861-32
aluminium powder (stabilised) *[T]*	7429-90-5 231-072-3 013-002-00-1	1-<3	Flam. Sol. 1; H228		-
Solvent naphtha (petroleum), light arom. *[P]*	64742-95-6 265-199-0 -	0,3-<1	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411		01-2119455851-35

Notes for substances:

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.
T	This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

Symptoms of poisoning may even occur after several hours; therefore medical observation is required at least 48 hours after the event. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. 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 victim is not breathing give artificial respiration. Seek medical help immediately. In case of unconsciousness bring patient into stable side position and seek medical attention.

Following skin contact

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

Following eye contact

If the patient is wearing contact lenses, remove them immediately. Immediately flush eyes with running water, keeping eyelids apart. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Immediately consult a doctor. Show the physician the safety data sheet or label.

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

Inhalation

Inhalation of vapours in harmful to health.
Can cause irritation of respiratory system.

Skin contact

Itching, redness, pain.

Eye contact

Redness, tearing, pain.

Ingestion

May cause nausea/vomiting and diarrhea.
May cause abdominal discomfort.

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

Carbon dioxide (CO_2).
Fire extinguishing powder.
Water spray. Fight larger fires with water spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of heating harmful vapours/gases can be generated.

5.3. Advice for firefighters

Protective actions

Cool containers at risk with water spray. If possible remove containers from endangered area. In case of fire or heating do not breathe fumes/vapours. Cool the endangered containers with water spray.

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).

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

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). Avoid contact with the eyes and skin. Do not breathe vapours/smoke!

Emergency procedures

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

6.1.2. For emergency responders

Use personal protective equipment.

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

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. Do not use water or water based cleansing agents. Ventilate the permises.

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. Vapours and air form explosive mixtures.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

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. Do not breathe vapours/mist. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep in tightly closed container. Keep away from oxidising substances. Keep away from heat and sources of ignition. Keep away from sources of ignition - no smoking. Store below 30°C.

7.2.2. Packaging materials

Store only in original container.

7.2.3. Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

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		
Aluminium metal inhalable dust (7429-90-5)	-	10	-	-		
Aluminium metal respirable dust (7429-90-5)	-	4	-	-		
Styrene (100-42-5)	100	430	250	1080		

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
styrene (100-42-5)	Worker	inhalation	long term (systemic effects)	85 mg/m³	
styrene (100-42-5)	Worker	inhalation	short term (systemic effects)	289 mg/m³	
styrene (100-42-5)	Worker	inhalation	short term (local effects)	306 mg/m³	
styrene (100-42-5)	Worker	dermal	long term (systemic effects)	406 mg/kg bw/day	
styrene (100-42-5)	Consumer	inhalation	long term (systemic effects)	10,2 mg/m³	
styrene (100-42-5)	Consumer	inhalation	short term (systemic effects)	174,25 mg/m³	
styrene (100-42-5)	Consumer	inhalation	long term (local effects)	182,75 mg/m³	
styrene (100-42-5)	Consumer	dermal	long term (systemic effects)	343 mg/kg bw/day	
styrene (100-42-5)	Consumer	oral	long term (systemic effects)	2,1 mg/kg bw/day	

8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
styrene (100-42-5)	fresh water	0,028 mg/L	
styrene (100-42-5)	water, intermittent release	0,04 mg/L	fresh water
styrene (100-42-5)	marine water	0,014 mg/L	
styrene (100-42-5)	water treatment plant	5 mg/L	
styrene (100-42-5)	fresh water sediment	0,614 mg/kg	dry weight
styrene (100-42-5)	marine water sediment	0,307 mg/kg	dry weight
styrene (100-42-5)	soil	0,2 mg/kg	dry weight

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. Do not eat, drink or smoke while working.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

8.2.2. Personal protective equipment

Eye and face protection

Tight fitting protective goggles (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. Unsuitable gloves: Natural rubber, Chloroprene rubber, Nitrile rubber, Butyl rubber, PVC gloves.

Appropriate materials

Material	Thickness	Penetration Time	Remark
Viton (fluorinated rubber)	0,7 mm	480 min	EN 374-4

Skin protection

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

Respiratory protection

Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard EN 137, EN 138.

Thermal hazards

-

8.2.3. Environmental exposure controls

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

-	**Physical state:**	liquid
-	**Colour:**	different colours
-	**Odour:**	characteristic

Important health, safety and environmental information

-	**pH**	No information.
-	**Melting point/freezing point**	No information.
-	**Initial boiling point/boiling range**	145 °C
-	**Flash point**	31 °C
-	**Evaporation rate**	No information.
-	**Flammability (solid, gas)**	480 °C
-	**Explosion limits (vol%)**	1,2 – 8,9 vol %
-	**Vapour pressure**	6 hPa at 20 °C
-	**Vapour density**	No information.
-	**Density**	**Density**: 1,2 – 1,9 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

-	**Remarks:**	

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Risk of exothermic polymerization.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Peroxide. Free radicals.

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. Decomposition products may include toxic gas.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
styrene (100-42-5)	oral	LD_{50}	rat		5000 mg/kg		
styrene (100-42-5)	dermal	LD_{50}	rat		> 2000 mg/kg	OECD 402	
styrene (100-42-5)	inhalation	LC_{50}	rat	4 h	11,8 mg/l		
aluminium powder (stabilised) (7429-90-5)	oral	LD_{50}	rat		> 2000 mg/kg		
aluminium powder (stabilised) (7429-90-5)	inhalation	LC_{50}	rat		> 888 mg/m^3		

Additional information: The product is not classified for acute toxicity.

(b) Skin corrosion/irritation

Additional information: Causes skin and eye irritation.

(c) Serious eye damage/irritation

No information.

(d) Respiratory or skin sensitisation

Additional information: The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
styrene (100-42-5)	inhalation (vapours)	NOAEL	rat		4,34 mg/l		OECD 453	5 days per week, 6 h per day

(g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
styrene (100-42-5)	Effects on fertility	NOAEL (parents)	rat		0,65 mg/L		OECD 416	Inhalation (vapour)
styrene (100-42-5)	Effects on fertility	NOAEL (F2)	rat		0,22 mg/L		OECD 416	Inhalation (vapour)
styrene (100-42-5)	Effects on fertility	NOAEL (parents)	rat		2,2 mg/L		OECD 416	Inhalation (vapour)
styrene (100-42-5)	Developmental toxicity	NOAEL	rat		2,6 mg/L			Inhalation
styrene (100-42-5)	Teratogenicity	NOAEL	rat		2,6 mg/L			Inhalation
styrene (100-42-5)	Maternal toxicity	LOAEL	rat		1,3 mg/L			Inhalation

Summary of evaluation of the CMR properties

Suspected of damaging the unborn child.

(h) STOT-single exposure

No information.

(i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
styrene (100-42-5)	inhalation (vapours)	NOAEL	rat	13 weeks		0,85 mg/L			6h/day
styrene (100-42-5)	inhalation (vapours)	NOAEL	rat			0,8 mg/L		OECD 453	6h/day
Additional information: Causes damage to organs through prolonged or repeated exposure.									

(j) Aspiration hazard

Additional information: Aspiration hazard: Not classified.

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
styrene (100-42-5)	EC_{10}	0,28 mg/L	96 h	algae	*Pseudokirchneriella subcapitata*	EPA OTS 797.1050	
	EC_{50}	4,7 mg/L	48 h	crustacea	*Daphnia magna*	OECD 202	
	EC_{50}	4,9 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	EPA OTS 797.1050	
	EC_{50}	ca. 500 mg/L	30 min	activated sludge		OECD 209	
	LC_{50}	4,02 mg/L	96 h	fish	*Pimephales promelas*		

12.1.2. Chronic (long-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
styrene (100-42-5)	NOEC	1,01 mg/l	21 days	crustacea	*Daphnia magna*	OECD 211	

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
styrene (100-42-5)	biodegradability	70,9 %	28 days	readily biodegradable	ISO DIN 9408	aerobic, activated sludge

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
styrene (100-42-5)	log Kow	2,95				

12.3.2. Bioconcentration factor (BCF)

For components

Substance (CAS Nr.)	Type	Organism	Value	Duration	Evaluation	Method	Remark
styrene (100-42-5)	BCF		74				Calculated value
styrene (100-42-5)	BCF	fish	13,5				

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

For components

Substance (CAS Nr.)	Type	Criterion	Value	Evaluation	Method	Remark
styrene (100-42-5)	Soil		352			Koc
styrene (100-42-5)	Soil	log KOC	2,55			

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.
Water hazard class 2 (self-assessment): hazardous for water.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. 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.

Waste codes / waste designations according to LoW

07 02 08* - other still bottoms and reaction residues

Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

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 1866

14.2. UN proper shipping name

RESIN SOLUTION

14.3. Transport hazard class(es)

3

14.4. Packing group

III

14.5. Environmental hazards

NO.

14.6. Special precautions for user

Limited quantities

5 L

Tunnel restriction code

(D/E)

IMDG flashpoint

31 °C, c.c.

IMDG EmS

F-E, S-E

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)

EU limit values and category: B(b) 250 g/l. VOC Content: < 250 g/l

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

H226 Flammable liquid and vapour.
H228 Flammable solid.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure .
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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.