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

1.1. Product identifier

Product name

90.930 Binder UniMix 2K HS Ultra Fast Acryl matt

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

Relevant identified uses

Varnish.

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

<u>Supplier</u>

+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. STOT SE 3; H336 May cause drowsiness or dizziness. Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.



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2.2 Label elements

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



Signal word: Warning

H226 Flammable liquid and vapour.

- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH208 Contains Dibutyltin dilaurate; pentaerythritol tetrakis(3-mercaptopropionate); reaction mass of Bis(1,2,2,6,6-

pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. P260 Do not breathe mist/vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/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.

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)

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.

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3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	12-26	Flam. Liq. 3; H226 STOT SE 3; H336		01-2119485493-29
2-butoxyethyl acetate	112-07-2 203-933-3 607-038-00-2	5-10	Acute Tox. 4; H302 Acute Tox. 4; H312		01-2119475112-47
heptan-2-one	110-43-0 203-767-1 606-024-00-3	2-5	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332		01-2119902391-49
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7	1-5	Flam. Liq. 3; H226		01-2119475791-29
2-ethylhexan-1-ol	104-76-7 203-234-3 -	0,3	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335		01-2119487289-20
Dibutyltin dilaurate	77-58-7 201-039-8 -	<0,25	Skin Corr. 1C; H314 Skin Sens. 1; H317 Eye Dam. 1; H318 Muta. 2; H341 Repr. 1A; H360FD STOT SE 1; H370 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		01-2119496068-27
pentaerythritol tetrakis(3-mercaptopropionate)	7575-23-7 231-472-8 -	<0,25	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		01-2119486981-23
reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		<0,15	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		01-2119491304-40
2-methoxypropyl acetate	70657-70-4 274-724-2 607-251-00-0	<0,01	Flam. Liq. 3; H226 STOT SE 3; H335 Repr. 1B; H360D		-
2-methoxypropanol	1589-47-5 216-455-5 603-106-00-0	<0,01	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 Repr. 1B; H360D		-

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SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 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 occur, seek medical advice.

Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms 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

Do not induce vomiting! Rinse mouth thoroughly with water. 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

Vapours may cause drowsiness and dizziness. Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

Skin contact

Contact with skin may cause irritation (redness, itching). May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

Eve contact

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

Ingestion

May cause nausea/vomiting and diarrhea.

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

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. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

No special precautions required.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.



5.3. Advice for firefighters

Protective actions

In case of fire do not breathe fumes/gases. 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).

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).

Emergency procedures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

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

Stem the spill if this does not pose risks.

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. 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. Take precautionary measures against static discharges. Use spark-proof tools. Protect from open fire and other sources of ignition or heat.

Measures to prevent aerosol and dust generation

Ensure good ventilation and extraction.

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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. Avoid contact with skin and eyes. Do not breathe vapours/mist. Use personal protective equipment.

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 tightly closed container. Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs.

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/m ³ (ppm)	mg/m ³	ml/m ³ (ppm)	mg/m ³		
2-Butoxyethyl acetate (112-07-2)	20	133	50	332	Sk	
Butyl acetate (123-86-4)	150	724	200	966		
Heptan-2-one (110-43-0)	50	237	100	475	Sk	
1-Methoxypropyl acetate (108-65-6)	50	274	100	548	Sk	

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	Туре	Exposure route	Exposure frequency	Value	Remark
n-butyl acetate (123-86-4)	Worker	inhalation	long term (systemic effects)	300 mg/m ³	

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n-butyl acetate (123-86-4)	Worker	inhalation	short term (systemic effects)	600 mg/m ³
n-butyl acetate (123-86-4)	Worker	inhalation	long term (local effects)	300 mg/m ³
n-butyl acetate (123-86-4)	Worker	inhalation	short term (local effects)	600 mg/m ³
n-butyl acetate (123-86-4)	Worker	dermal	long term (systemic effects)	11 mg/kg bw/day
n-butyl acetate (123-86-4)	Worker	dermal	short term (systemic effects)	11 mg/kg bw/day
n-butyl acetate (123-86-4)	Consumer	inhalation	long term (systemic effects)	35,7 mg/m ³
n-butyl acetate (123-86-4)	Consumer	inhalation	short term (systemic effects)	300 mg/m ³
n-butyl acetate (123-86-4)	Consumer	inhalation	long term (local effects)	35,7 mg/m ³
n-butyl acetate (123-86-4)	Consumer	inhalation	short term (local effects)	300 mg/m ³
n-butyl acetate (123-86-4)	Consumer	dermal	long term (systemic effects)	6 mg/kg bw/day
n-butyl acetate (123-86-4)	Consumer	dermal	short term (systemic effects)	6 mg/kg bw/day
n-butyl acetate (123-86-4)	Consumer	oral	long term (systemic effects)	2 mg/kg bw/day
n-butyl acetate (123-86-4)	Consumer	oral	short term (systemic effects)	2 mg/kg bw/day
2-butoxyethyl acetate (112-07-2)	Worker	inhalation	long term (systemic effects)	133 mg/m ³
2-butoxyethyl acetate (112-07-2)	Worker	inhalation	short term (systemic effects)	333 mg/m ³
2-butoxyethyl acetate (112-07-2)	Worker	dermal	long term (systemic effects)	169 mg/kg bw/day
2-butoxyethyl acetate (112-07-2)	Worker	dermal	short term (systemic effects)	120 mg/kg bw/day
2-butoxyethyl acetate (112-07-2)	Consumer	inhalation	long term (systemic effects)	80 mg/m ³
2-butoxyethyl acetate (112-07-2)	Consumer	inhalation	short term (systemic effects)	200 mg/m ³
2-butoxyethyl acetate (112-07-2)	Consumer	dermal	long term (systemic effects)	102 mg/kg bw/day
2-butoxyethyl acetate (112-07-2)	Consumer	dermal	short term (systemic effects)	72 mg/kg bw/day
2-butoxyethyl acetate (112-07-2)	Consumer	oral	long term (systemic effects)	8,6 mg/kg bw/day
2-butoxyethyl acetate (112-07-2)	Consumer	oral	short term (systemic effects)	36 mg/kg bw/day
2-methoxy-1-methylethyl acetate (108-65- 6)	Consumer	dermal	long term (systemic effects)	54,8 mg/kg
2-methoxy-1-methylethyl acetate (108-65- 6)	Consumer	inhalation	long term (systemic effects)	33 mg/m ³
2-methoxy-1-methylethyl acetate (108-65- 6)	Consumer	oral	long term (systemic effects)	1,67 mg/kg
2-methoxy-1-methylethyl acetate (108-65- 6)	Worker	dermal	long term (systemic effects)	153,5 mg/kg
2-methoxy-1-methylethyl acetate (108-65- 6)	Worker	inhalation	long term (systemic effects)	275 mg/m ³

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8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
n-butyl acetate (123-86-4)	fresh water	0,18 mg/L	
n-butyl acetate (123-86-4)	water, intermittent release	0,36 mg/L	fresh water
n-butyl acetate (123-86-4)	marine water	0,018 mg/L	
n-butyl acetate (123-86-4)	water treatment plant	35,6 mg/L	
n-butyl acetate (123-86-4)	fresh water sediment	0,981 mg/kg	dry weight
n-butyl acetate (123-86-4)	marine water sediment	0,098 mg/kg	dry weight
n-butyl acetate (123-86-4)	soil	0,09 mg/kg	dry weight
2-butoxyethyl acetate (112-07-2)	fresh water	0,304 mg/L	
2-butoxyethyl acetate (112-07-2)	water, intermittent release	0,56 mg/L	fresh water
2-butoxyethyl acetate (112-07-2)	marine water	0,03 mg/L	
2-butoxyethyl acetate (112-07-2)	water treatment plant	90 mg/L	
2-butoxyethyl acetate (112-07-2)	fresh water sediment	2,03 mg/kg	dry weight
2-butoxyethyl acetate (112-07-2)	marine water sediment	0,203 mg/kg	dry weight
2-butoxyethyl acetate (112-07-2)	soil	0,415 mg/kg	dry weight
2-butoxyethyl acetate (112-07-2)	food chain	60 mg/kg	oral
2-methoxy-1-methylethyl acetate (108-65-6)	soil	0,29 mg/kg	
2-methoxy-1-methylethyl acetate (108-65-6)	fresh water	0,635 mg/L	
2-methoxy-1-methylethyl acetate (108-65-6)	fresh water sediment	3,29 mg/kg	
2-methoxy-1-methylethyl acetate (108-65-6)	marine water	0,0635 mg/L	
2-methoxy-1-methylethyl acetate (108-65-6)	marine water sediment	0,329 mg/kg	
2-methoxy-1-methylethyl acetate (108-65-6)	water treatment plant	100 mg/L	

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. Do not eat, drink or smoke while working. 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

Safety glasses with side protection (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 selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. 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

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).



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:	
-	Odour:	

Important health, safety and environmental information

-	рН	No information.
-	Melting point/freezing point	No information.
-	Initial boiling point/boiling range	No information.
-	Flash point	< 60 °C
-	Evaporation rate	No information.
-	Flammability (solid, gas)	No information.
-	Explosion limits (vol%)	No information.
-	Vapour pressure	No information.
-	Vapour density	No information.
-	Density	No information.
-	Solubility	No information.
-	Partition coefficient	No information.
-	Auto-ignition temperature	No information.
-	Decomposition temperature	No information.
-	Viscosity	No information.
-	Explosive properties	No information.
-	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

The product is stable under recommended storage and handling conditions.

10.4. Conditions to avoid

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



10.5. Incompatible materials

Oxidants.

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

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

(b) Skin corrosion/irritation

Additional information: The product is not classified as irritating to skin and eyes.

(c) Serious eye damage/irritation

No information.

(d) Respiratory or skin sensitisation

Additional information: May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

Additional information: May cause drowsiness or dizziness.

(i) STOT-repeated exposure

Additional information: STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

Additional information: Aspiration hazard: Not classified.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

No information.

12.1.2. Chronic (long-term) toxicity

No information.

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12.2. Persistence and degradability

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

12.2.2. Biodegradation

No information.

No information.

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

No information.

12.3.2. Bioconcentration factor (BCF)

No information.

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

Harmful to aquatic life with long lasting effects. Do not allow to reach ground water, water courses or sewage system.

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 allow product to reach drains/sewage systems.

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

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14.1. UN number

UN 1263

- **14.2. UN proper shipping name** PAINT
- 14.3. Transport hazard class(es)

3

14.4. Packing group

Ш

- **14.5. Environmental hazards**
- 14.6. Special precautions for user

Limited quantities

5 L

Tunnel restriction code (D/E) IMDG flashpoint 60 °C, c.c. IMDG EmS

F-E, <u>S-E</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

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

EU limit values and category: B(d) 420 g/l. VOC Content: 420 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 LC50 - Lethal Concentration to 50 % of a test population LD₅₀ - 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

List of relevant H phrases

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects .
- H360D May damage the unborn child.
- H360FD May damage fertility. May damage the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure .
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Provided correct labelling of the product

Compliance with the local legislation

Provided correct classification of the product

Provided adequate transport data

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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.