

Date of issue: 12.05.2014

Date of update: 24.10.2014

*Safety Data Sheet according to Regulation EC 1907/2006 of 18.12.2006 - REACH and 453/2010 of 20.05.2010.***SECTION 1: Identification of the substance / mixture and company identification****1.1 Product ID:** MATTING AGENT SOLL MAT (Art. No. S-MAT 1)**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Identified uses: additive which allows coat matting and obtaining a surface "without gloss"  
Advises against uses: not specified

**1.3 Data of the supplier Safety Data Sheet:**

**Manufacturer:** UAB HELVINA  
Parko str. 96, Ramuciai  
LT-54464 Kaunas district, Lithuania  
Tel./fax: (+370) 37 308901 / 37 308902

E-mail address of the person responsible for the Safety Data Sheet: [info@helvina.lt](mailto:info@helvina.lt) / [www.helvina.lt](http://www.helvina.lt)**1.4 Emergency telephone number:**

Poison control and information office: Tel.: +370 5 236 2052 or +370 687 53378

**SECTION 2: Hazard identification****2.1 Classification of the substance or mixture**Classification 67/548/EWG or 1999/45/WE

R10

Xn; R20/21

R67

R66

R52/53

Classification 1272/2008

Flam. Liq. 3; H226

Skin Irrit. 2; H315

STOT SE 3; H336

Aquatic Chronic 3; H412

**Hazard to human health**

Causes skin irritation. May cause drowsiness or dizziness.

**Environmental hazards**

Harmful to aquatic life with long lasting effects.

**Physical/chemical hazards**

Flammable liquid and vapour.

**2.2 Label elements:****Pictogram(s):**Signal word: **Warning****Hazard statements:****H226** – Flammable liquid and vapour.**H315** – Causes skin irritation.**H336** – May cause drowsiness or dizziness.**H412** – Harmful to aquatic life with long lasting effects.

Date of issue: 12.05.2014

Date of update: 24.10.2014

Safety Data Sheet according to Regulation EC 1907/2006 of 18.12.2006 - REACH and 453/2010 of 20.05.2010.

**EUH066** – Repeated exposure may cause skin dryness or cracking.**Precautionary statements:****P210** – Keep away from heat / sparks / open flames / hot surfaces – No smoking.**P273** – Avoid release to the environment.**P280** – Wear protective gloves / protective clothing / eye protection / face protection.**P302 + P352** – IF ON SKIN: Wash with soap and water.**P304 + P340** – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**P332 + P313** – If skin irritation occurs: Get medical advice / attention.**Additional information:**

Contains methyl methacrylate (CAS: 80-62-6), 2-hydroxyethyl methacrylate (CAS: 868-77-9). May cause an allergic reaction.

**Contains:** n-butyl acetate (CAS: 123-86-4)**2.3 Other hazards:**

No other hazards.



No information on the fulfilment of the criteria for PBT or vPvB in accordance with Annex XIII of the REACH Regulation. Appropriate studies have not been conducted.






**SECTION 3: Composition / information on ingredients****3.1 Substances:**

Not applicable.

**3.2 Mixtures:**

Hazardous ingredients:

Product identification	Content %	Classification 67/548/EWG	CLP classification	
			Hazard class and category codes	Phrases indicating codes of hazard type
n-butyl acetate CAS: 123-86-4 WE: 204-658-1 Index no: 607-025-00-1 REACH no: 01-2119485493-29-XXXX	30 - 50	R10, R66, R67	Flam. Liq. 3 STOT SE 3	H226 H336
Dimethylbenzene – mixture of isomers CAS: 1330-20-7 WE: 215-535-7 Index no: 601-022-00-9 REACH no: 01-2119488216-32-XXXX	4 - 8	R10  Xn: R20/21  Xi: R38	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2	H226 H332 H312 H315
2-Methoxy-1-methylethyl acetate CAS: 108-65-6 WE: 203-603-9 Index no: 607-195-00-7 REACH no: 01-2119475791-29-XXXX	15 - 30	R10	Flam. Liq. 3	H226

Hydrocarbons, C9, aromatics CAS: - WE: 918-668-5 Index no: - REACH no: 01-2119455851-35-XXXX	3 - 8	R10  Xn; R65  Xi; R37 R66 R67  N; R51/53	Flam. Liq. 3 Asp. Tox. 1 STOT SE 3 Aquatic Chronic 2	H226 H304 H335 H336 H411
Ethylbenzene CAS: 100-41-4 WE: 202-849-4 Index no: 601-023-00-4 REACH no: substance is subject to the transitional period	1 - 2	 F: R11  Xn: R20; R48/20; R65	Flam. Liq. 2 Acute Tox. 4 STOT RE 2 Asp. Tox. 1	H225 H332 H373 H304

Full text of the R and H phrases provided in section 16.

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

###### IF ON SKIN:

Wash contaminated skin with soap and water, rinse with water. If skin irritation or a rash occurs: contact a doctor.

###### IF IN EYES:

Rinse with plenty of water for about 15 minutes, holding the eyelids wide open. Avoid strong stream of water - risk of cornea damage, contact a doctor.

###### IF INHALED:

In case of dizziness or nausea remove victim to fresh air, call a doctor if there is no rapid improvement.

###### IF SWALLOWED:

Do NOT induce vomiting. Get immediate medical advice / attention. Do not give anything by mouth to an unconscious person.

##### 4.2 The most important symptoms and effects, both acute and delayed:

Contact with skin: irritation, redness, dryness, cracking.

Contact with eyes: possible slight irritation in the case of direct contact.

Respiratory system: irritation of nasal mucosa, throat and further parts of respiratory system, may depress central nervous system and adversely affect the internal organs – liver, kidney. Symptoms include headache, dizziness, drowsiness, weakness, in extreme cases loss of consciousness.

Gastrointestinal tract: chemical irritation of oral cavity, throat and further parts of gastrointestinal tract. After absorption may experience symptoms of food poisoning, abdominal pain, dizziness, nausea and vomiting. Ingestion of large amounts may cause liver and kidney damage.

##### 4.3 Indications of any immediate medical attention and special treatment needed:

The decision on how to proceed take the doctor after examination of injured.

#### SECTION 5: Fire fighting measures

##### 5.1 Extinguishing media:

**Appropriate extinguishing media:** alcohol-resistant foam or dry powder (A, B, C), carbon dioxide (CO<sub>2</sub> type extinguisher), sand or soil, water fog. Use suitable fire extinguishing methods depending on the conditions.

**Inappropriate extinguishing media:** Strong stream of water.

##### 5.2 Special hazards arising from the substance or mixture:

During a fire, high temperatures can cause release of toxic decomposition products which contain inter alia: carbon oxides, nitrogen oxides. Vapours are able to form explosive mixtures with air. Heavier than air they accumulate in depressions or in lower parts of the room – can cause the phenomenon of flashback.

**5.3 Advice for firefighters:**

Cool containers situated in zone of fire by spraying water, if possible, remove from the danger zone. In case of fire in a closed room wear protective clothing and self-contained breathing apparatus. Do not allow to get through the extinguishing water to surface water, groundwater and sewage system.

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

*For persons not being the members of aid giving staff:* inform the appropriate service. Remove from the danger zone people not involved in the liquidation of accident. Remove all possible sources of ignition.

*For persons giving aid:* Ensure proper ventilation, use protective gloves, protective shoes and protective clothing. In the case of splashing of the product use protective glasses or protective mask. Do not breathe vapours. Use personal respiratory system protection.

**6.2 Environmental precautions:**

Prevent from spreading and leakage into sewage system and water reservoir. In case of inability inform the local authorities to provide protection.

**6.3 Methods and materials for containment and cleaning up:**

Prevent from spreading and remove by gathering on absorbent material (sand, sawdust, diatomaceous soil, universal absorbent). Contaminated material put in properly labelled containers for disposal in accordance with applicable regulations.

**6.4 Reference to other sections**

Disposal considerations – see section 13 of the Safety Data Sheet.

Personal protection measures – see section 8 of the Safety Data Sheet.

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

Use only in well ventilated area. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid spilling. Avoid breathing vapours. Do not allow to exceed the NDS value in the workplace for the product components. Avoid sources of ignition, heat, hot surfaces and open flames. Apply measures against electrostatic charges – appropriate neutralization and protective earthing during e.g. transferring contents of the containers. It is recommended to wear anti-static clothing and footwear during handling the product. Floor of the room where product is stored or used should be made of electrically conductive materials. Make sure if the electric lighting and wiring are working properly and do not constitute a potential source of ignition. Do not use cutting tools that cause sparks. Avoid inhalation of vapours / aerosols. Work in accordance with the principles of health and safety: do not eat and drink, do not smoke in the workplace, wash hands after use, remove contaminated clothing and protective equipment before entering eating areas.

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

Store in a cool (storage temperature 5°C – 30°C), dry, well-ventilated room. Store in properly labelled and tightly closed original container. Avoid direct sunlight and sources of heat, hot surfaces and open flames. If repackaging is necessary, make sure that the new packaging is suitable for the type of product. After opening close tightly containers and set upright to prevent leakage of the product. Do not store near oxidizing agents, strongly alkaline, strongly acidic products and combustible materials.

**7.3 Special end use(s):** Additive which makes the paint / coating has a matte surface effect

**SECTION 8: Exposure control/personal protection****8.1 Control parameters:**

Components, for which exposure standards are in force.

Name / type of component	NDS	NDSch	NDSP
	mg/m <sup>3</sup>		
Ethylbenzene	200	400	-
Dimethylbenzene (xylene) – mixture of isomers	100	-	-
n-butyl acetate	200	950	-
2-Methoxy-1-methylethyl acetate	260	520	-

**n-butyl acetate:**

DNEL for workers, prolonged exposure through the skin: 7mg/kg mc/day  
 DNEL for workers, prolonged exposure through inhalation: 48mg/m<sup>3</sup>  
 DNEL for consumer, prolonged exposure through the skin: 3,4mg/kg mc/day  
 DNEL for consumer, prolonged exposure through inhalation: 12mg/m<sup>3</sup>  
 DNEL for consumer, prolonged exposure if swallowed: 3,4mg/kg mc/day  
 PNEC freshwater: 0,18mg/l  
 PNEC sea water: 0,018mg/l  
 PNEC periodic release: 0,36mg/l  
 PNEC sewage treatment plant: 35,6mg/l  
 PNEC freshwater sediment: 0,981mg/kg  
 PNEC sea waters sediment: 0,0981mg/l  
 PNEC soil: 0,0903mg/kg

**2-Methoxy-1-methylethyl acetate**

DNEL for workers, prolonged exposure through the skin (systemic effects): 153,5mg/kg mc  
 DNEL for workers, prolonged exposure through inhalation (systemic effects): 275mg/m<sup>3</sup>  
 DNEL for consumer, prolonged exposure through the skin (systemic effects): 54,8mg/kg mc  
 DNEL for consumer, prolonged exposure if swallowed (systemic effects): 1,67mg/kg mc/day  
 PNEC freshwater: 0,635mg/l  
 PNEC freshwater sediment: 3,29mg/kg  
 PNEC sea waters sediment: 0,329mg/l  
 PNEC soil: 0,29mg/kg  
 PNEC sewage treatment plant: 100mg/l

**Hydrocarbons, C9, aromatics**

DNEL for workers, prolonged exposure through the skin (systemic effects): 25mg/kg mc/day  
 DNEL for workers, prolonged exposure through inhalation (systemic effects): 150mg/m<sup>3</sup>  
 DNEL for consumer, prolonged exposure through the skin (systemic effects): 32mg/kg mc/day  
 DNEL for consumer, prolonged exposure through inhalation (systemic effects): 150mg/m<sup>3</sup>  
 DNEL for consumer, prolonged exposure if swallowed (systemic effects): 11mg/kg mc/day

**Maximum concentrations of dangerous component (xylene) in biological material:**

DSB –1,4 g/dm<sup>3</sup> calculated on average density of urine - 1,024  
 Determined substance – methyl hippuric acid  
 Biological material – urine

Notes: sample collected once, at the end of daily exposure on any day.

**Maximum concentrations of dangerous component (ethylbenzene) in biological material:**

DSB –0,3 g/g creatinine  
 Determined substance – mandelic acid  
 Biological material – urine

Notes: sample collected once, at the end of daily exposure on any day.

**8.2 Exposure control:**

**Appropriate technical control measures:** use of general ventilation of the room is recommended.

**Individual protection measures, such as personal protective equipment:**

**Eye or face protection:**

Wear protective glasses or protective mask (in accordance with EN 166).

**Skin protection:****Hand protection:**

Use protective gloves resistant to chemicals, made of viton, 0,7 mm thick, penetration time > 480 min or nitrile rubber, 0,4 mm thick, penetration time > 30 min in accordance to EN-PN 374:2005.

**The material from which the gloves are made:**

Choice of suitable gloves depends not only on the material, but also on the brand and quality that depend on manufacturer. Resistance of the material from which gloves are made can be determined after testing. The exact time of the destruction of the protective gloves must be determined by the manufacturer.

**Other:**

Wear protective clothing working – wash regularly.

**Respiratory system protection:**

Avoid breathing vapours. In case of exceeding the NDS value in the workplace use personal respiratory system protection – mask or half mask with filter and universal or A type vapour absorber (class 1, 2 or 3) in accordance with EN 141.

**Thermal hazards:**

Not applicable.

**Control of environmental exposure**

Do not allow to spread in the environment and leakage to sewage system and watercourses.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical state	liquid
Colour	colourless
Odour	solvent - ester
Odour threshold	0,9 - 9 mg/m <sup>3</sup> (xylene)
pH	not applicable
Melting point (range)	not applicable
Boiling point (range)	120 – 130°C
Flash point	26°C
Ignition temperature	not specified
Evaporation rate	not specified
Flammability (solid, gas)	not applicable
Bottom explosion limit	1 vol% (xylene)
Top explosive limit	8 vol% (xylene)
Vapour pressure (20°C)	9 hPa (xylene)

Date of issue: 12.05.2014

Date of update: 24.10.2014

Safety Data Sheet according to Regulation EC 1907/2006 of 18.12.2006 - REACH and 453/2010 of 20.05.2010.

Relative vapour density	4,0 (n-butyl acetate)
Solubility in water	very weak
N-octanol / water division ratio	1,85 (n-butyl acetate)
Autoignition point	> 200 °C
Breakdown point	not specified
Viscosity ISO 2431 (4 mm)	not specified
Explosive properties	not applicable
Oxidizing properties	not applicable

**9.2 Other information:**

No additional test results.

**SECTION 10: Stability and reactivity****10.1 Reactivity:**

Unknown.

**10.2 Chemical stability:**

Product remains stable under normal use, storage and transport conditions.

**10.3 Possibility of hazardous reactions:**

None.

**10.4 Conditions to be avoided:**

Avoid high temperature, direct sunlight, hot surfaces and open flames.

**10.5 Incompatible materials:**

Strong acids, strong alkalis, strong oxidizing agents. Combustible materials.

**10.6 Hazardous decomposition products:**

As a result of high temperatures toxic gases are generated – carbon oxides.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects:**

a) acute toxicity: does not show

**n-butyl acetate**

LD<sub>50</sub> (rat, male; orally) 10760 mg/kg  
 LC<sub>50</sub> (rat, male, female; inhalation) 23,4mg/l/h (In vivo, aerosol)  
 LD<sub>50</sub> (rabbit; skin) >14000mg/kg

**Xylene:**

Acute oral toxicity LD<sub>50</sub> (rat): 4300 mg/kg  
 Acute skin toxicity LD<sub>50</sub>: no data  
 Acute inhalation toxicity LC<sub>50</sub> (rat): 22100 mg/m<sup>3</sup>/4h

**Ethylbenzene:**

Acute oral toxicity LD<sub>50</sub> (rat): 3500 mg/kg  
 Acute skin toxicity LD<sub>50</sub>: no data  
 Acute inhalation toxicity LC<sub>50</sub> (rat): 17800 mg/m<sup>3</sup>/4h  
 TCL<sub>0</sub> (human; inhalation) 442 mg/ m<sup>3</sup> (8 h)

**2-Methoxy-1-methylethyl acetate:**

LD<sub>50</sub> (rat; orally) >5000mg/kg  
 LC<sub>50</sub> (rat; inhalation) no data  
 LD<sub>50</sub> (rabbit; skin) >5000mg/kg

**Hydrocarbons, C9, aromatics:**

LD<sub>50</sub> (rat; orally) 3592mg/kg  
 LC<sub>50</sub> (rat; inhalation) >6193mg/m<sup>3</sup>/4h

LD<sub>50</sub> (skin) >3160mg/kg

- b) irritating effect: irritating to skin
- c) caustic effect: does not show
- d) allergenic effects: does not show
- e) toxicity for repeated exposure: May cause drowsiness or dizziness
- f) cancerogenity: does not show
- g) mutagenity: does not show
- h) harmful effect on reproduction: does not show

#### Information on likely routes of exposure:

Contact with skin: irritation, redness, dryness, cracking.

Contact with eyes: possible slight irritation in the case of direct contact.

Respiratory system: irritation of nasal mucosa, throat and further parts of respiratory system, may depress central nervous system and adversely affect the internal organs – liver, kidney. Symptoms include headache, dizziness, drowsiness, weakness, in extreme cases loss of consciousness.

Gastrointestinal tract: chemical irritation of oral cavity, throat and further parts of gastrointestinal tract. After absorption may experience symptoms of food poisoning, abdominal pain, dizziness, nausea and vomiting. Ingestion of large amounts may cause liver and kidney damage.

#### Delayed and immediate and chronic effects from short-and long-term exposure:

No data.

#### The effects of the interaction:

No data.

## SECTION 12: Ecological information

Detailed studies of the environmental effects of the mixture were not carried out. Harmful to aquatic life with long lasting effects. Do not allow to leakage to ground water sewage system and watercourses.

### 12.1 Toxicity:

#### n-butyl acetate:

LC <sub>50</sub> – fish ( <i>Pimephales promelas</i> )	18 mg/l, 96h
EC <sub>50</sub> – invertebrates ( <i>Daphnia</i> sp.)	44 mg/l, 48h
NOEC – algae ( <i>Desmodesmus subspicatus</i> )	200 mg/l, 72h
ErC <sub>50</sub> – algae ( <i>Desmodesmus subspicatus</i> )	648 mg/l, 72h
IC <sub>50</sub> – activated sludge ( <i>Tetrahymena pyriformis</i> )	356 mg/l, 40h

#### Xylene:

Acute toxicity to fish (*Pimephales promelas*) LC<sub>50</sub>: 16,1 mg/dm<sup>3</sup>/96h

Acute toxicity to aquatic invertebrates (*Daphnia magna*) EC<sub>50</sub>: 3,82 mg/dm<sup>3</sup>/48h

#### Ethylbenzene:

Acute toxicity to fish (*Pimephales promelas*) LC<sub>50</sub>: 49 mg/dm<sup>3</sup>/96h

Acute toxicity to aquatic invertebrates (*Daphnia magna*) EC<sub>50</sub>: 184 mg/dm<sup>3</sup>/24h

#### 2-Methoxy-1-methylethyl acetate:

LC/EC/IC <sub>50</sub> – fish	>100 mg/l,
LC/EC/IC <sub>50</sub> – invertebrates	>100 mg/l,
LC/EC/IC <sub>50</sub> – algae	>100 mg/l,
NOEC/NOEL – invertebrates	>10-< 100mg/l
NOEC/NOEL – microorganisms	>100 mg/l

#### Hydrocarbons, C9, aromatics:

LL <sub>50</sub> – fish ( <i>Oncorhynchus mykiss</i> )	9,2 mg/l, 96h
EL <sub>50</sub> – invertebrates ( <i>Daphnia magna</i> )	3,2 mg/l, 48h
ErL <sub>50</sub> – algae ( <i>Pseudokirchneriella subspicatus</i> )	2,9 mg/l, 72h
NOER – algae ( <i>Pseudokirchneriella subspicatus</i> )	1 mg/l, 72h

### 12.2 Persistence and degradability:

**n-butyl acetate**: Slowly hydrolyzed in water. Hydrolysis half-time: 78 days at pH: 8 and 2 years at pH: 7 (in 25°C).

Substance is easily biodegradable: 80% within 5 days (83% within 28 days).

**Xylene**: Substance is easily biodegradable in water. 50-70% after 5 days (oxygen, communal sewage)



Date of issue: 12.05.2014

Date of update: 24.10.2014

*Safety Data Sheet according to Regulation EC 1907/2006 of 18.12.2006 - REACH and 453/2010 of 20.05.2010.*

Half-life degradation in groundwater: 20-116 days,

Half-life degradation in soil: 2-7 days

Half-life degradation in an atmosphere: 8-14 days

**2-Methoxy-1-methylethyl acetate:** Substance is easily biodegradable; oxidized in the air as a result of photochemical reactions.**Hydrocarbons, C9, aromatics:** product undergoes rapid biodegradation**12.3 Bioaccumulative potential:****n-butyl acetate:** log Ko/w: 2,3 (BCF expected: 15,3) – substance is not expected to bio accumulate.**Xylene:** BCF <100**2-Methoxy-1-methylethyl acetate:** log Po/w: 0,56**12.4 Mobility in soil:****n-butyl acetate:** Ko/c: 1,27 (estimated value)**2-Methoxy-1-methylethyl acetate:** Ko/c: 1,7 (estimated value)**Hydrocarbons, C9, aromatics:** easily volatile; evaporates quickly.**12.5 Results of PBT and vPvB assessment:**

No data.

**12.6 Other adverse effects:**

No data.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods:**

Disposable containers and waste must be disposed by authorized firm. Disposal procedure should be agreed with area competent department of environmental protection. Rest of product store in original containers. Dispose in accordance with applicable regulations. Empty containers must be disposed in accordance with applicable regulations or deliver to suitable garbage dump.

**SECTION 14: Transport information****14.1 UN number (ONZ number):** 1263**14.2 UN proper shipping name:** PAINT OR PAINT RELATED MATERIAL**14.3 Transport hazard class(es):** 3**14.4 Packaging group:** III**14.5 Environmental hazards:** none**14.6 Special precautions for user:** always transport in closed containers that are upright, labelled and secured.**14.7 Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code:** no information.**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 THE COUNCIL of 18 December 2006 Concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), with subsequent amendments.

\*Commission Regulation (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of THE EUROPEAN PARLIAMENT AND THE COUNCIL Concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

\* Regulation (EC) No 1272/2008 (CLP) (Article 55, Annex VI, Table 3.2) of THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, with subsequent amendments.

\* Council Directive No. 75/442/EEC On waste and Council Directive No. 91/689/EEC On hazardous waste. Commission Decision No 2000/532/EC of 3 May 2000, stating the list of waste, OJ No. L 226 / 3, 6 September 2000, along with changing decisions.

**15.1 Chemical safety assessment:**

No chemical safety assessment for the substances, and the mixture.

**SECTION 16: Other information****R and H phrases:**

R10 – Flammable.

R11 – Highly flammable.

R20 – Harmful by inhalation.

R20/21 – Harmful by inhalation and in contact with skin.

R37 – Irritating to respiratory system.

R38 – Irritating to skin.

R48/20 – Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 – Harmful: may cause lung damage if swallowed.

R66 – Repeated exposure may cause skin dryness or cracking.

R67 – Vapours may cause drowsiness and dizziness.

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.

H332 – Harmful if inhaled.

H335 – May cause respiratory irritation.

H336 – May cause drowsiness or dizziness.

H373 – May cause 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.

**Explanation of the abbreviations, acronyms and symbols used in the Safety Data Sheet:**

Xn – Harmful

Xi – Irritant

N – Dangerous for the environment

F – Highly flammable

Flam. Liq. 2 – Liquid, flammable substances, category 2

Flam. Liq. 3 – Liquid, flammable substances, category 3

Acute Tox. 4 – Acute toxicity, category 4

Asp. Tox. 1 – Aspiration hazard, category 1

STOT SE 3 – Toxic effect on target organs – single exposure, category 3

STOT RE 2 – Specific target organ toxicity – repeated exposure, category 2

Skin Irrit. 2 – Irritating effect on skin, category 2

Aquatic Chronic 2 – Hazardous to the aquatic environment - chronic hazard, category 2

Aquatic Chronic 3 – Hazardous to the aquatic environment - chronic hazard, category 3

NDS – Maximum permissible concentration of substances in the workplace

NDSP – Maximum permissible ceiling concentration

NDSch – Maximum permissible instantaneous concentration

**Training:**

Before starting handling the product, workers must undergo obligatorily occupational health and safety training because of presence of chemicals in the workplace. Perform, document and familiarize employees with the results of risk assessment in the workplace due to the presence of chemical agents.

The information of this Material Safety Data Sheet is based on the present state of knowledge and on current EU and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.