

## Safety Data Sheet

### MAPECOAT PU 20 N /A

Safety Data Sheet dated: 23/03/2023 - version 2



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

### 1.1. Product identifier

Mixture identification:

Trade name: MAPECOAT PU 20 N /A

Trade code: 904UN9990

UFI: MH01-POU7-200D-ECVW

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

Recommended use: Solvent-borne protective paint

Uses advised against: Not available

### 1.3. Details of the supplier of the safety data sheet

Company: MAPEI S.p.A. - Via Cafiero, 22 - 20158 Milano

Tel. +(39)02376731 (office hours) - Fax: +39-02-37673.214 - www.mapei.it

Responsible: sicurezza@mapei.it

### 1.4. Emergency telephone number

Centro antiveleni, Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli - Tel. 081 5453333

Centro antiveleni, Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze - Tel. 055 7947819

Centro antiveleni, Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia - Tel. 0382 24444

Centro antiveleni, Azienda ospedaliera Niguarda Ca' Granda, piazza Ospedale Maggiore 3, Milano - Tel. 02 66101029

Centro antiveleni, Azienda ospedaliera "Papa Giovanni XXIII", Tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo - Tel. 800 883300

Centro antiveleni Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma - Tel. 06 49978000

Centro antiveleni del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma - Tel. 06 3054343

Centro antiveleni, Azienda ospedaliera universitaria Riuniti, viale Luigi Pinto 1, Foggia - Tel. 800 183459

Centro antiveleni, Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma - Tel. 06 68593726

Centro antiveleni dell'Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona - Tel. 800 011858

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 3	Flammable liquid and vapour.
Skin Sens. 1	May cause an allergic skin reaction.
STOT SE 3	May cause respiratory irritation.
STOT SE 3	May cause drowsiness or dizziness.
Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) No 1272/2008 (CLP):

#### Pictograms and Signal Words



Warning

#### Hazard statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

H336 May cause drowsiness or dizziness.  
H411 Toxic 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.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/clothing and eye/face protection.  
P370+P378 In case of fire, use water to extinguish.  
P391 Collect spillage.  
P403+P235 Store in a well-ventilated place. Keep cool.

### Special Provisions:

EUH208 Contains fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an allergic reaction.  
EUH208 Contains maleic anhydride. May produce an allergic reaction.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### Contains

2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 1,2-propanediol mono(2-methyl-2-propenoate) and 2-propenoic acid

hydrocarbons C9 aromatics

xylene

### Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards: No other hazards

---

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not Relevant

### 3.2. Mixtures

Mixture identification: MAPECOAT PU 20 N /A

### Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
$\geq 25 - < 50$ %	2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 1,2-propanediol mono(2-methyl-2-propenoate) and 2-propenoic acid	CAS:37237-99-3 EC:679-495-6	Skin Sens. 1, H317	
$\geq 25 - < 50$ %	hydrocarbons C9 aromatics	CAS:64742-95-6, 128601-23-0 EC:265-199-0 Index:649-356-00-4	STOT SE 3, H335; STOT SE 3, H336; Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411, EUH066	01-2119486773-24-XXXX
$\geq 2.5 - < 5$ %	xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT RE 2, H373; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	01-2119488216-32-XXXX
$\geq 0.49 - < 1$ %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195-00-7	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475791-29-XXXX
$\geq 0.1 - < 0.25$ %	fatty acids, C14-18 and C16-18-unsatd., maleated	CAS:85711-46-2 EC:288-306-2	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319	01-2119976378-19-xxxx

≥0.05 - ethylbenzene CAS:100-41-4 Flam. Liq. 2, H225; Acute Tox. 4,  
<0.1 % EC:202-849-4 H332; STOT RE 2, H373; Asp. Tox.  
Index:601-023-1, H304  
00-4

<0.0015 % maleic anhydride CAS:108-31-6 Skin Corr. 1B, H314 Resp. Sens. 1, 01-2119472428-31-xxxx  
EC:203-571-6 H334 Acute Tox. 4, H302 Skin  
Index:607-096- Sens. 1A, H317 STOT RE 1, H372,  
00-9 EUH071

Specific Concentration Limits:  
C ≥ 0.001%: Skin Sens. 1A H317

---

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Not available

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

---

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use water to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

### 5.3. Advice for firefighters

Use suitable breathing apparatus.

---

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

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

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

### 6.4. Reference to other sections

See also section 8 and 13

---

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

---

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
xylene CAS: 1330-20-7	National	SWEDEN	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm SWEDEN, Short term value, 15 minutes average value
	National	FINLAND	Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 440 mg/m <sup>3</sup> - 100 ppm FINLAND, hud
	National	NORWAY	Long Term: 108 mg/m <sup>3</sup> - 25 ppm NORWAY, H
	EU		Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm Skin
	National	NORWAY	Long Term: 109 mg/m <sup>3</sup> - 25 ppm; Short Term: 218 mg/m <sup>3</sup> - 50 ppm
	ACGIH		Long Term: 100 ppm; Short Term: 150 ppm A4, BEI - URT and eye irr, CNS impair
	DFG	GERMANY	Ceiling - Short Term: 880 mg/m <sup>3</sup> - 200 ppm
	ACGIH		Long Term: 100 ppm; Short Term: 150 ppm A4 - Not Classifiable as a Human Carcinogen;CNS impairment;eye and upper respiratory tract irritation
	National	SWEDEN	Long Term: 221 mg/m <sup>3</sup> - 50 ppm
	National	FRANCE	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
	National	SPAIN	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
	National	GREECE	Long Term: 435 mg/m <sup>3</sup> - 100 ppm; Short Term: 650 mg/m <sup>3</sup> - 150 ppm
	National	DENMARK	Long Term: 109 mg/m <sup>3</sup> - 25 ppm
	National	FINLAND	Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 440 mg/m <sup>3</sup> - 100 ppm
	National	GERMANY	Long Term: 440 mg/m <sup>3</sup> - 100 ppm
	National	PORTUGAL	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
National	NORWAY	Long Term: 108 mg/m <sup>3</sup> - 25 ppm; Short Term: 135 mg/m <sup>3</sup> - 37.5 ppm	
National	BELGIUM	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm	
NDS	POLAND	Long Term: 100 mg/m <sup>3</sup>	
NDSCh	POLAND	Short Term: 200 mg/m <sup>3</sup>	
CHE	SWITZERLAN D	Short Term: 870 mg/m <sup>3</sup> - 200 ppm	

	NDS	NETHERLAND S	Long Term: 210 mg/m <sup>3</sup> ; Short Term: 442 mg/m <sup>3</sup>
	National	CZECH REPUBLIC	Long Term: 200 mg/m <sup>3</sup>
	National	HUNGARY	Long Term: 221 mg/m <sup>3</sup> ; Short Term: 442 mg/m <sup>3</sup>
	Malaysi a OEL	MALAYSIA	Long Term: 434 mg/m <sup>3</sup> - 100 ppm
	National	ESTONIA	Long Term: 200 mg/m <sup>3</sup> - 50 ppm; Short Term: 450 mg/m <sup>3</sup> - 100 ppm
	National	LATVIA	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
	National	CZECH REPUBLIC	Ceiling - Short Term: 400 mg/m <sup>3</sup>
	National	SLOVAKIA	Ceiling - Short Term: 442 mg/m <sup>3</sup>
	National	SLOVAKIA	Long Term: 221 mg/m <sup>3</sup> - 50 ppm
	National	SLOVENIA	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
	National	UNITED KINGDOM	Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 441 mg/m <sup>3</sup> - 100 ppm
	National	BULGARIA	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
	National	ROMANIA	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
	TUR	TURKEY	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
	National	LITHUANIA	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
	National	CROATIA	Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
	EU		Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm Behaviour Indicative Possibility of significant uptake through the skin (pure)
2-methoxy-1-methylethyl acetate CAS: 108-65-6	DFG	GERMANY	Ceiling - Short Term: 440 mg/m <sup>3</sup> - 100 ppm
	ACGIH		Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm Skin
	SUVA		Long Term: 275 mg/m <sup>3</sup> - 50 ppm
	National	SWEDEN	Long Term: 250 mg/m <sup>3</sup> - 50 ppm; Short Term: 400 mg/m <sup>3</sup> - 75 ppm SWEDEN, Short-term value, 15 minutes average value
	National	NORWAY	Long Term: 270 mg/m <sup>3</sup> - 50 ppm H E
	National	FINLAND	Long Term: 270 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm FINLAND, hud
	NDS		Long Term: 260 mg/m <sup>3</sup>
	NDSCh		Long Term: 520 mg/m <sup>3</sup>
	EU		Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm Skin
	National	GREECE	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm
National	DENMARK	Long Term: 275 mg/m <sup>3</sup> - 50 ppm	
National	BELGIUM	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm	
National	CZECH REPUBLIC	Ceiling - Short Term: 550 mg/m <sup>3</sup>	
National	SLOVAKIA	Ceiling - Short Term: 550 mg/m <sup>3</sup>	
EU		Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm Behaviour Indicative Possibility of significant uptake through the skin	
DFG	GERMANY	Ceiling - Short Term: 270 mg/m <sup>3</sup> - 50 ppm	
National	SWEDEN	Long Term: 275 mg/m <sup>3</sup> - 50 ppm	
National	FRANCE	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm	
National	SPAIN	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm	
National	FINLAND	Long Term: 270 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm	
National	GERMANY	Long Term: 270 mg/m <sup>3</sup> - 50 ppm	
National	PORTUGAL	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm	

National NORWAY	Long Term: 270 mg/m <sup>3</sup> - 50 ppm; Short Term: 337.5 mg/m <sup>3</sup> - 75 ppm
NDS POLAND	Long Term: 260 mg/m <sup>3</sup>
NDSch POLAND	Short Term: 520 mg/m <sup>3</sup>
CHE SWITZERLAND	Short Term: 275 mg/m <sup>3</sup> - 50 ppm
NDS NETHERLANDS	Long Term: 550 mg/m <sup>3</sup>
National CZECH REPUBLIC	Long Term: 270 mg/m <sup>3</sup>
National HUNGARY	Long Term: 275 mg/m <sup>3</sup> ; Short Term: 550 mg/m <sup>3</sup>
National ESTONIA	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm
National LATVIA	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm
National SLOVAKIA	Long Term: 275 mg/m <sup>3</sup> - 50 ppm
National SLOVENIA	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm
National UNITED KINGDOM	Long Term: 274 mg/m <sup>3</sup> - 50 ppm; Short Term: 548 mg/m <sup>3</sup> - 100 ppm
National BULGARIA	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm
National ROMANIA	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm
TUR TURKEY	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm
National LITHUANIA	Long Term: 250 mg/m <sup>3</sup> - 50 ppm; Short Term: 400 mg/m <sup>3</sup> - 75 ppm
National CROATIA	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm
EU	Long Term: 275 mg/m <sup>3</sup> - 50 ppm; Short Term: 550 mg/m <sup>3</sup> - 100 ppm Behaviour Indicative Possibility of significant uptake through the skin
ethylbenzene CAS: 100-41-4	National SWEDEN Long Term: 200 mg/m <sup>3</sup> - 50 ppm; Short Term: 450 mg/m <sup>3</sup> - 100 ppm SWEDEN, Short-term value, 15 minutes average value
	National FINLAND Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 880 mg/m <sup>3</sup> - 200 ppm FINLAND, hud
	National NORWAY Long Term: 20 mg/m <sup>3</sup> - 5 ppm NORWAY, HK
	EU Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm Skin
	National NORWAY Long Term: 217 mg/m <sup>3</sup> - 50 ppm; Short Term: 434 mg/m <sup>3</sup> - 100 ppm
ACGIH	Long Term: 20 ppm A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair
National POLAND	Long Term: 200 mg/m <sup>3</sup> ; Short Term: 400 mg/m <sup>3</sup>
DFG GERMANY	Ceiling - Short Term: 176 mg/m <sup>3</sup> - 40 ppm
ACGIH	Long Term: 20 ppm A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; upper respiratory tract irritation; kidney damage (nephropathy); cochlear impairment
National SWEDEN	Long Term: 220 mg/m <sup>3</sup> - 50 ppm
National FRANCE	Long Term: 88.4 mg/m <sup>3</sup> - 20 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm
National SPAIN	Long Term: 441 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm
National GREECE	Long Term: 435 mg/m <sup>3</sup> - 100 ppm; Short Term: 545 mg/m <sup>3</sup> - 125 ppm
National DENMARK	Long Term: 217 mg/m <sup>3</sup> - 50 ppm
National FINLAND	Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 880 mg/m <sup>3</sup> - 200 ppm
National GERMANY	Long Term: 88 mg/m <sup>3</sup> - 20 ppm
National PORTUGAL	Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm
National NORWAY	Long Term: 20 mg/m <sup>3</sup> - 5 ppm; Short Term: 30 mg/m <sup>3</sup> - 10 ppm
National BELGIUM	Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 551 mg/m <sup>3</sup> - 125 ppm
NDS POLAND	Long Term: 200 mg/m <sup>3</sup>
NDSch POLAND	Short Term: 400 mg/m <sup>3</sup>
CHE SWITZERLAND	Short Term: 220 mg/m <sup>3</sup> - 50 ppm

NDS	NETHERLANDS	Long Term: 215 mg/m <sup>3</sup> ; Short Term: 430 mg/m <sup>3</sup>
National	CZECH REPUBLIC	Long Term: 200 mg/m <sup>3</sup>
National	HUNGARY	Long Term: 442 mg/m <sup>3</sup> ; Short Term: 884 mg/m <sup>3</sup>
Malaysi a OEL	MALAYSIA	Long Term: 434 mg/m <sup>3</sup> - 100 ppm
National	ESTONIA	Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm
National	LATVIA	Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm
National	CZECH REPUBLIC	Ceiling - Short Term: 500 mg/m <sup>3</sup>
National	SLOVAKIA	Ceiling - Short Term: 884 mg/m <sup>3</sup>
National	SLOVAKIA	Long Term: 442 mg/m <sup>3</sup> - 100 ppm
National	SLOVENIA	Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm
National	UNITED KINGDOM	Long Term: 441 mg/m <sup>3</sup> - 100 ppm; Short Term: 552 mg/m <sup>3</sup> - 125 ppm
National	BULGARIA	Long Term: 435 mg/m <sup>3</sup> ; Short Term: 545 mg/m <sup>3</sup>
National	ROMANIA	Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm
TUR	TURKEY	Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm
National	LITHUANIA	Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm
National	CROATIA	Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm
EU		Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm Behaviour Indicative Possibility of significant uptake through the skin
National	BELGIUM	Long Term: 87 mg/m <sup>3</sup> - 20 ppm; Short Term: 551 mg/m <sup>3</sup> - 125 ppm
DFG	GERMANY	Ceiling - Short Term: 0.081 mg/m <sup>3</sup> - 0.02 ppm
ACGIH		Long Term: 0.01 mg/m <sup>3</sup> A4 - Not Classifiable as a Human Carcinogen;respiratory sensitization;dermal sensitizer; respiratory sensitizer;
National	SWEDEN	Long Term: 0.2 mg/m <sup>3</sup> - 0.05 ppm
National	FRANCE	Short Term: 1 mg/m <sup>3</sup>
National	SPAIN	Long Term: 0.4 mg/m <sup>3</sup> - 0.1 ppm
National	GREECE	Long Term: 1 mg/m <sup>3</sup> - 0.25 ppm
National	DENMARK	Long Term: 0.4 mg/m <sup>3</sup> - 0.1 ppm
National	FINLAND	Long Term: 0.41 mg/m <sup>3</sup> - 0.1 ppm
National	FINLAND	Ceiling - Short Term: 0.81 mg/m <sup>3</sup> - 0.2 ppm
National	GERMANY	Long Term: 0.41 mg/m <sup>3</sup> - 0.1 ppm
National	PORTUGAL	Long Term: 0.1 ppm
National	NORWAY	Long Term: 0.8 mg/m <sup>3</sup> - 0.2 ppm; Short Term: 2.4 mg/m <sup>3</sup> - 0.6 ppm
National	BELGIUM	Long Term: 0.41 mg/m <sup>3</sup> - 0.1 ppm
NDS	POLAND	Long Term: 0.5 mg/m <sup>3</sup>
NDSCh	POLAND	Short Term: 1 mg/m <sup>3</sup>
CHE	SWITZERLAND	Short Term: 0.4 mg/m <sup>3</sup> - 0.1 ppm
National	CZECH REPUBLIC	Long Term: 1 mg/m <sup>3</sup>
National	HUNGARY	Long Term: 0.4 mg/m <sup>3</sup> ; Short Term: 0.4 mg/m <sup>3</sup>
Malaysi a OEL	MALAYSIA	Long Term: 1 mg/m <sup>3</sup> - 0.25 ppm
National	ESTONIA	Long Term: 1.2 mg/m <sup>3</sup> - 0.3 ppm; Short Term: 2.5 mg/m <sup>3</sup> - 0.6 ppm
National	LATVIA	Long Term: 1 mg/m <sup>3</sup>
National	CZECH REPUBLIC	Ceiling - Short Term: 2 mg/m <sup>3</sup>

maleic anhydride  
CAS: 108-31-6

National SLOVAKIA	Ceiling - Short Term: 0.41 mg/m <sup>3</sup>
National SLOVAKIA	Long Term: 0.41 mg/m <sup>3</sup> - 0.1 ppm
National SLOVENIA	Long Term: 0.41 mg/m <sup>3</sup> - 0.1 ppm; Short Term: 0.41 mg/m <sup>3</sup> - 0.1 ppm
National UNITED KINGDOM	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 3 mg/m <sup>3</sup>
National BULGARIA	Long Term: 1 mg/m <sup>3</sup>
National ROMANIA	Long Term: 1 mg/m <sup>3</sup> - 0.25 ppm; Short Term: 3 mg/m <sup>3</sup> - 0.75 ppm
National LITHUANIA	Long Term: 1.2 mg/m <sup>3</sup> - 0.3 ppm; Short Term: 2.5 mg/m <sup>3</sup> - 0.6 ppm
National CROATIA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 3 ppm
ACGIH	Long Term: 0.01 mg/m <sup>3</sup> A4 - Not Classifiable as a Human Carcinogen; respiratory sensitization; dermal sensitizer; respiratory sensitizer
National GERMANY	Long Term: 0.081 mg/m <sup>3</sup> - 0.02 ppm
National CROATIA	Long Term: 0.41 mg/m <sup>3</sup> - 0.1 ppm; Short Term: 0.8 mg/m <sup>3</sup> - 0.2 ppm
National PORTUGAL	Long Term: 0.01 mg/m <sup>3</sup>
National BELGIUM	Long Term: 0.01 mg/m <sup>3</sup> - 0.0025 ppm

### Biological limit values

xylene  
CAS: 1330-20-7  
Biological Indicator: Methyl uric Acid; Sampling Period: End of turn  
Value: 1.5 GGCREAT; Medium: Urine

ethylbenzene  
CAS: 100-41-4  
Biological Indicator: Mandelic acid and fenilgliossalico; Sampling Period: End of turn  
Value: 0.15 GGCREAT; Medium: Urine  
Remark: Not Specific

### Predicted No Effect Concentration (PNEC) values

xylene  
CAS: 1330-20-7  
Exposure Route: Fresh Water; PNEC Limit: 0.327 mg/l

Exposure Route: Marine water; PNEC Limit: 0.327 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 12.46 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 12.46 mg/kg

Exposure Route: Soil; PNEC Limit: 2.31 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 6.58 mg/l

Exposure Route: Intermittent release; PNEC Limit: 0.32 mg/l

2-methoxy-1-methylethyl acetate  
CAS: 108-65-6  
Exposure Route: Fresh Water; PNEC Limit: 0.635 mg/l

Exposure Route: Marine water; PNEC Limit: 0.0635 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 3.29 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0.329 mg/kg

Exposure Route: Intermittent release; PNEC Limit: 6.35 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Exposure Route: Soil; PNEC Limit: 0.29 mg/kg

maleic anhydride  
CAS: 108-31-6  
Exposure Route: Freshwater sediments; PNEC Limit: 0.334 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0.0334 mg/kg

Exposure Route: Soil; PNEC Limit: 0.0415 mg/kg

Exposure Route: Fresh Water; PNEC Limit: 0.04281 mg/l

Exposure Route: Marine water; PNEC Limit: 0.00428 mg/l

Exposure Route: Intermittent release; PNEC Limit: 0.4281 mg/l

### Derived No Effect Level (DNEL) values

xylene  
CAS: 1330-20-7  
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Industry: 289 mg/m<sup>3</sup>; Consumer: 174 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 289 mg/m<sup>3</sup>; Consumer: 174 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 180 mg/kg; Consumer: 108 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 77 mg/m<sup>3</sup>; Consumer: 14.8 mg/m<sup>3</sup>

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 1.6 mg/kg

2-methoxy-1-methylethyl acetate  
CAS: 108-65-6  
Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 796 mg/kg; Consumer: 320 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 275 mg/m<sup>3</sup>; Consumer: 33 mg/m<sup>3</sup>

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 36 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Industry: 550 mg/m<sup>3</sup>

maleic anhydride  
CAS: 108-31-6  
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 0.8 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)  
Worker Industry: 0.8 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 0.4 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Industry: 0.4 mg/m<sup>3</sup>

## 8.2. Exposure controls

### Eye protection:

Use close fitting safety goggles, don't use eye lens.

### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

### Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness  $\geq 0,5$ mm; breakthrough time  $\geq 480$ min.

Nitrile rubber - NBR: thickness  $\geq 0,35$ mm; breakthrough time  $\geq 480$ min.

Butyl rubber - IIR: thickness  $\geq 0,5$ mm; breakthrough time  $\geq 480$ min.

Fluorinated rubber - FKM: thickness  $\geq 0,4$ mm; breakthrough time  $\geq 480$ min.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

### Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Use adequate protective respiratory equipment.

### Hygienic and Technical measures

Not available

### Appropriate engineering controls:

Not available

---

## SECTION 9: Physical and chemical properties

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

Physical state: Liquid

Appearance: Viscous

Color: various

Odour: Characteristic

Melting point / freezing point: Not available

Initial boiling point and boiling range: Not available

Flammability: The product is classified Flam. Liq. 3 H226

Lower and upper explosion limit: Not available

Flash point: 45 °C (113 °F)

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: Not available  
Viscosity: 1,350.00 cPs  
Kinematic viscosity: Not available  
Solubility in water: Insoluble  
Solubility in oil: Not available  
Partition coefficient (n-octanol/water): Not available  
Vapour pressure: Not available  
Relative density: 1.25 g/cm<sup>3</sup>  
Vapour density: Not available

**Particle characteristics:**

Particle size: Not available

**9.2. Other information**

Miscibility: Not available  
Conductivity: Not available  
No other relevant information

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

None.

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

Avoid contact with combustible materials. The product could catch fire.

**10.6. Hazardous decomposition products**

None.

---

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Toxicological Information of the Preparation**

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	The product is classified: STOT SE 3(H335), STOT SE 3(H336)
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

**Toxicological information on main components of the mixture:**

hydrocarbons C9 aromatics	a) acute toxicity	LD50 Skin Rabbit > 2000 mg/kg LD50 Oral Rat = 3492 mg/kg LC50 Inhalation Vapour Rat = 6193 mg/m <sup>3</sup>
---------------------------	-------------------	--------------------------------------------------------------------------------------------------------------------

xylene	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LC50 Inhalation Vapour Rat = 11 mg/l 4h LD50 Skin Rabbit = 3200 mg/kg LD50 Skin Rabbit > 4350 mg/kg LC50 Inhalation Rat = 29.08 mg/l 4h LD50 Oral Rat = 3500 mg/kg	
	e) germ cell mutagenicity	NOAEL Inhalation Rat > 2000 ppm	
	f) carcinogenicity	NOAEL Oral Rat = 500 mg/kg NOAEL Oral Rat = 1000 mg/kg	
	g) reproductive toxicity	NOAEL Inhalation Rat = 500 ppm	
	2-methoxy-1-methylethyl acetate	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg  LD50 Skin Rabbit > 5000 mg/kg LD50 Skin Rabbit > 5 g/kg
		e) germ cell mutagenicity	NOAEL Inhalation Rat = 1000 ppm
	g) reproductive toxicity	NOAEL Inhalation Rat = 500 ppm	
fatty acids, C14-18 and C16-18-unsatd., maleated	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg	
	g) reproductive toxicity	NOAEL Oral Rat > 1000 mg/kg	
ethylbenzene	a) acute toxicity	LD50 Skin Rabbit = 5000 mg/kg LD50 Oral Rat = 3500 mg/kg LC50 Inhalation Rat = 17.4 mg/l 4h	
maleic anhydride	a) acute toxicity	LD50 Oral Rat = 1090 mg/kg LD50 Skin Rabbit = 2620 mg/kg	

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

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

#### List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)

#### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
hydrocarbons C9 aromatics	CAS: 64742-95-6, 128601-23-0 - EINECS: 265-199-0 - INDEX: 649-356-00-4	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 9.22 mg/L 96h IUCLID  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 21.3 mg/L 48h IUCLID
xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia = 165 mg/L 48  a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 2.2 mg/L 72 c) Bacteria toxicity : EC50 = 96 mg/L 24

		b) Aquatic chronic toxicity : NOEC Fish > 1.3 mg/L
		b) Aquatic chronic toxicity : NOEC Daphnia = 1.57 mg/L
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 13.4 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 2.661 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 13.5 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 13.1 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 19 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 7.711 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 23.53 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 780 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 780 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata 30.26 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia water flea = 3.82 mg/L 48h
		a) Aquatic acute toxicity : LC50 Daphnia Gammarus lacustris = 0.6 mg/L 48h
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity : LC50 Fish = 130 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia >= 100 mg/L 48h
		b) Aquatic chronic toxicity : NOEC Fish = 47.5 mg/L - 14 d
		b) Aquatic chronic toxicity : NOEC Daphnia >= 100 mg/L - 21 d
		b) Aquatic chronic toxicity : NOEC Algae >= 1000 mg/L
fatty acids, C14-18 and C16-18-unsatd., maleated	CAS: 85711-46-2 - EINECS: 288-306-2	a) Aquatic acute toxicity : LC50 Fish > 150 mg/L 48
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48
		a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72
		c) Bacteria toxicity : EC50 Bacteria > 1000 mg/L 3
		a) Aquatic acute toxicity : LC50 Fish Danio rerio > 100 mg/L 96h ECHA
maleic anhydride	CAS: 108-31-6 - EINECS: 203-571-6 - INDEX: 607-096-00-9	a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 29 mg/L 72h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 75 mg/L 96h ECHA

## 12.2. Persistence and degradability

N.A.

## 12.3. Bioaccumulative potential

N.A.

## 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

## 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

## 12.7. Other adverse effects

Not available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

---

## SECTION 14: Transport information

### 14.1. UN number or ID number

1139

### 14.2. UN proper shipping name

ADR-Shipping Name: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining) (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35 °C) (hydrocarbons, C9, aromatics)

IATA-Technical name: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining) (hydrocarbons, C9, aromatics)

IMDG-Technical name: COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under-coating, drum or barrel lining) (hydrocarbons, C9, aromatics)

### 14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

### 14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

### 14.5. Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Yes

IMDG-EMS: F-E, S-E

### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR-Hazard identification number: 30

ADR-Special Provisions: -

ADR-Transport category (Tunnel restriction code): 3 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 955

IMDG-EMS: F-E, S-E

#### 14.7. Maritime transport in bulk according to IMO instruments

Not Applicable

---

### SECTION 15: Regulatory information

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

VOC (2004/42/EC) : 340 g/l

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) n. 2020/878

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

<b>Seveso III category according to Annex 1, part 1</b>	<b>Lower-tier threshold (tonnes)</b>	<b>Upper-tier threshold (tonnes)</b>
---------------------------------------------------------	--------------------------------------	--------------------------------------

Product belongs to category: P5c	5000	50000
----------------------------------	------	-------

Product belongs to category: E2	200	500
---------------------------------	-----	-----

#### Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 30, 70, 75

#### SVHC Substances:

SVHC substances not present in a concentration  $\geq 0.1\%$  (w/w)

#### National regulations

Lagerklasse (TRGS-510): 3 - Flammable liquids

#### German Water Hazard Class.

2

**Regulation (UE) 2019/1148 (Explosive precursors):** No substances contained

**Regulation (CE) 273/2004 and 111/2005 (Drug precursors):** No substances contained

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

---

### SECTION 16: Other information

<b>Code</b>	<b>Description</b>
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.

<b>Code</b>	<b>Hazard class and hazard category</b>	<b>Description</b>
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
2.6/3	On basis of test data
3.4.2/1	Calculation method
3.8/3	Calculation method
3.8/3	Calculation method
4.1/C2	Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.  
CMR: Carcinogenic, Mutagenic and Reprotoxic  
COD: Chemical Oxygen Demand  
COV: Volatile Organic Compound  
CSA: Chemical Safety Assessment  
CSR: Chemical Safety Report  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level.  
DPD: Dangerous Preparations Directive  
DSD: Dangerous Substances Directive  
EC50: Half Maximal Effective Concentration  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ES: Exposure Scenario  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
IC50: half maximal inhibitory concentration  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAFH: KAFH  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
NA: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.

**\* Sheet model entirely changed in compliance to regulatory update.**