

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

### **1.1. Product identifier**

Mixture identification:

Trade name: MAPECOAT ACT MATT

Trade code: 906LT9990

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

Recommended use: Varnish

Uses advised against: Data 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](http://www.mapei.it)

Responsable: [sicurezza@mapei.it](mailto: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)**

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

### **2.2. Label elements**

#### **Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with applicable regulations.

#### **Special Provisions:**

EUH208 Contains Adipohydrazide. May produce an allergic reaction.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

EUH208 Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

EUH208 Contains 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

#### **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

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not Relevant

### 3.2. Mixtures

Mixture identification: MAPECOAT ACT MATT

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

| Qty                                                                                                                                                                                                                                                  | Name                                                                                                                                  | Ident. Numb.                                         | Classification                                                                                                                                                                              | Registration Number   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| $\geq 1 - < 2.5$ %                                                                                                                                                                                                                                   | 2-(2-butoxyethoxy)ethanol                                                                                                             | CAS:112-34-5<br>EC:203-961-6<br>Index:603-096-00-8   | Eye Irrit. 2, H319                                                                                                                                                                          | 01-2119475104-44-XXXX |
| $\geq 0.49 - < 1$ %                                                                                                                                                                                                                                  | polyethylene glycol monooleylether                                                                                                    | CAS:9004-98-2<br>EC:500-016-2                        | Skin Irrit. 2, H315; Aquatic Acute 1, H400                                                                                                                                                  |                       |
| $\geq 0.1 - < 0.25$ %                                                                                                                                                                                                                                | Adipohydrazide                                                                                                                        | CAS:1071-93-8<br>EC:213-999-5                        | Skin Sens. 1, H317; Aquatic Chronic 2, H411                                                                                                                                                 | 01-2119962900-36-xxxx |
| $\geq 0.1 - < 0.25$ %                                                                                                                                                                                                                                | Paraffin oils, sulfochlorinated, saponified                                                                                           | CAS:68188-18-1<br>EC:269-144-1                       | Repr. 2, H361; Aquatic Chronic 3, H412; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319                                                                                         | 01-2119517577-32-XXXX |
| $\geq 0.025 - < 0.05$ %                                                                                                                                                                                                                              | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                                                              | CAS:2634-33-5<br>EC:220-120-9<br>Index:613-088-00-6  | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Chronic 2, H411                                                                    |                       |
| Specific Concentration Limits:<br>C $\geq 0.05\%$ : Skin Sens. 1 H317                                                                                                                                                                                |                                                                                                                                       |                                                      |                                                                                                                                                                                             |                       |
| $\geq 0.025 - < 0.05$ %                                                                                                                                                                                                                              | free crystalline silica ( $\emptyset < 10 \mu$ )                                                                                      | CAS:14808-60-7<br>EC:238-878-4                       | STOT RE 1, H372                                                                                                                                                                             |                       |
| $\geq 0.025 - < 0.05$ %                                                                                                                                                                                                                              | methyl methacrylate                                                                                                                   | CAS:80-62-6<br>EC:201-297-1<br>Index:607-035-00-6    | Flam. Liq. 2, H225; STOT SE 3, H335; Skin Irrit. 2, H315; Skin Sens. 1, H317                                                                                                                | 01-2119452498-28-xxxx |
| $\geq 0.01 - < 0.016$ %                                                                                                                                                                                                                              | 3-iodo-2-propynylbutylcarbamate (IPBC)                                                                                                | CAS:55406-53-6<br>EC:259-627-5<br>Index:616-212-00-7 | Acute Tox. 4, H302; Eye Dam. 1, H318; Acute Tox. 3, H331; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317, M-Acute:10                                   |                       |
| $< 0.0015$ %                                                                                                                                                                                                                                         | reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | CAS:55965-84-9<br>EC:611-341-5<br>Index:613-167-00-5 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 3, H301 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Acute Tox. 2, H310 Acute Tox. 2, H330 Eye Dam. 1, H318, M-Chronic:100, M-Acute:100 |                       |
| Specific Concentration Limits:<br>C $\geq 0.6\%$ : Skin Corr. 1C H314<br>0.06% $\leq$ C $< 0.6\%$ : Skin Irrit. 2 H315<br>C $\geq 0.6\%$ : Eye Dam. 1 H318<br>0.06% $\leq$ C $< 0.6\%$ : Eye Irrit. 2 H319<br>C $\geq 0.0015\%$ : Skin Sens. 1A H317 |                                                                                                                                       |                                                      |                                                                                                                                                                                             |                       |

|                                                    |                                                      |                                                                                                                                                                                                                    |                       |
|----------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <0.0015 % 4,5-dichloro-2-octyl-2H-isothiazol-3-one | CAS:64359-81-5<br>EC:264-843-8<br>Index:613-335-00-8 | Acute Tox. 2, H330 Acute Tox. 4, H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Corrosive to the respiratory tract., M-Chronic:100, M-Acute:100        | 01-2119488953-20-XXXX |
|                                                    |                                                      | Specific Concentration Limits:<br>0.025% ≤ C < 5%: Skin Irrit. 2 H315<br>0.025% ≤ C < 3%: Eye Irrit. 2 H319<br>C ≥ 0.0015%: Skin Sens. 1A H317                                                                     |                       |
|                                                    |                                                      | Acute Toxicity Estimate:<br>ATE - Oral: 567mg/kg bw                                                                                                                                                                |                       |
| <0.0015 % 2-octyl-2H-isothiazol-3-one              | CAS:26530-20-1<br>EC:247-761-7<br>Index:613-112-00-5 | Acute Tox. 2, H330 Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071                 |                       |
|                                                    |                                                      | Specific Concentration Limits:<br>C ≥ 0.0015%: Skin Sens. 1A H317                                                                                                                                                  |                       |
|                                                    |                                                      | Acute Toxicity Estimate:<br>ATE - Oral: 125mg/kg bw<br>ATE - Dermal: 311mg/kg bw                                                                                                                                   |                       |
| < 0.00015 % formaldehyde                           | CAS:50-00-0<br>EC:200-001-8<br>Index:605-001-00-5    | Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 3, H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350                                                                                       |                       |
|                                                    |                                                      | Specific Concentration Limits:<br>0.2% ≤ C < 100%: Skin Sens. 1 H317<br>5% ≤ C < 25%: Skin Irrit. 2 H315<br>5% ≤ C < 25%: Eye Irrit. 2 H319<br>5% ≤ C < 100%: STOT SE 3 H335<br>25% ≤ C < 100%: Skin Corr. 1B H314 |                       |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

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:

Remove casualty to fresh air and keep warm and at rest.

### 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

Treatment:

Not available

(see paragraph 4.1)

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).  
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 persons to safety.

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.  
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

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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 | Ceiling | Long Term mg/m3 | Long Term ppm | Short Term mg/m3 | Short Term ppm | Behaviour  | Notes                                 |
|--------------------------------------------|----------|---------|---------|-----------------|---------------|------------------|----------------|------------|---------------------------------------|
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5 | DFG      | GERMANY | C       |                 |               | 100.5            | 15             |            |                                       |
|                                            | ACGIH    |         |         |                 | 10            |                  |                |            | hematologic, kidney and liver effects |
|                                            | National | SWEDEN  |         | 68              | 10            |                  |                |            |                                       |
|                                            | EU       |         |         | 67.5            | 10            | 101.2            | 15             | Indicative |                                       |
|                                            | National | FRANCE  |         | 68              | 10            | 101.2            | 15             |            |                                       |
|                                            | National | SPAIN   |         | 67.5            | 10            | 101.2            | 15             |            |                                       |
|                                            | National | GREECE  |         | 67.5            | 10            | 101.2            | 15             |            |                                       |
|                                            | National | DENMARK |         | 68              | 10            |                  |                |            |                                       |
|                                            | National | FINLAND |         | 68              | 10            |                  |                |            |                                       |

|                                                         |                            |       |    |        |    |
|---------------------------------------------------------|----------------------------|-------|----|--------|----|
| free crystalline silica (Ø<br><10 µ)<br>CAS: 14808-60-7 | National GERMANY           | 67    | 10 |        |    |
|                                                         | National PORTUGAL          | 67.5  | 10 | 101.2  | 15 |
|                                                         | National NORWAY            | 68    | 10 | 102    | 15 |
|                                                         | National BELGIUM           | 67.5  | 10 | 101.2  | 15 |
|                                                         | NDS POLAND                 | 67    |    |        |    |
|                                                         | NDSch POLAND               |       |    | 100    |    |
|                                                         | CHE SWITZERLAND            |       |    | 101    | 15 |
|                                                         | NDS NETHERLANDS            | 50    |    | 100    |    |
|                                                         | National CZECH<br>REPUBLIC | 100   |    |        |    |
|                                                         | National HUNGARY           | 67.5  |    | 101.2  |    |
|                                                         | National ESTONIA           | 67.5  | 10 |        |    |
|                                                         | National LATVIA            | 67.5  | 10 | 101.2  | 15 |
|                                                         | National CZECH<br>REPUBLIC | C     |    | 100    |    |
|                                                         | National SLOVAKIA          | C     |    | 101.2  |    |
|                                                         | National SLOVAKIA          | 67.5  | 10 |        |    |
|                                                         | National SLOVENIA          | 67.5  | 10 | 101.25 | 15 |
|                                                         | National UNITED<br>KINGDOM | 67.5  | 10 | 101.2  | 15 |
|                                                         | National BULGARIA          | 67.5  | 10 | 101.2  | 15 |
|                                                         | National ROMANIA           | 67.5  | 10 | 101.2  | 15 |
|                                                         | TUR TURKEY                 | 67.5  | 10 | 101.2  | 15 |
|                                                         | National LITHUANIA         | 67.5  | 10 | 101.2  | 15 |
|                                                         | National CROATIA           | 67.5  | 10 | 101.2  | 15 |
|                                                         | ACGIH                      | 0.025 |    |        |    |
|                                                         | National ARGENTINA         | 0.050 |    |        |    |
|                                                         | National AUSTRALIA         | 0.100 |    |        |    |
|                                                         | National AUSTRIA           | 0.150 |    |        |    |
|                                                         | National BELGIUM           | 0.100 |    |        |    |
|                                                         | National BULGARIA          | 0.070 |    |        |    |
|                                                         | National CROATIA           | 0.1   |    |        |    |
|                                                         | National CZECH<br>REPUBLIC | 0.100 |    |        |    |
|                                                         | National DENMARK           | 0.100 |    | 0.200  |    |
|                                                         | National DENMARK           | 0.300 |    | 0.600  |    |
|                                                         | National ESTONIA           | 0.100 |    |        |    |
|                                                         | National FINLAND           | 0.050 |    |        |    |
|                                                         | National FRANCE            | 0.100 |    |        |    |
|                                                         | National HUNGARY           | 0.150 |    |        |    |
|                                                         | National ITALY             | 0.100 |    |        |    |
|                                                         | National LITHUANIA         | 0.100 |    |        |    |
|                                                         | Malaysi MALAYSIA<br>a OEL  | 0.100 |    |        |    |
|                                                         | NDS NETHERLANDS            | 0.075 |    |        |    |
|                                                         | National NORWAY            | 0.300 |    |        |    |

A2 - Suspected Human  
Carcinogen;lung  
cancer;pulmonary fibrosis

A\*

Respirabel fraktion,  
respirable fraction  
E: Stoffet har en EU-  
grænseværdi.  
K: Stoffet anses for at  
kunne være  
kræftfremkaldende.

Total dust

Respirabel fraktion.  
Respirable fraction

0.1 mg/m3 TWA (respirable  
dust)

Totalstøv (total dust);  
K: Kjemikalier som skal

|                                     |                   |             |         |        |         |         |            |                                                                                                                                                                               |
|-------------------------------------|-------------------|-------------|---------|--------|---------|---------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| methyl methacrylate<br>CAS: 80-62-6 | National NORWAY   |             | 0.050   |        |         |         |            | betraktes som kreftfremkallende.                                                                                                                                              |
|                                     | ACGIH             |             | 0.025   |        |         |         |            | Respirabelt støv (respirable dust);<br>K: Kjemikalier som skal betraktes som kreftfremkallende.<br>G: EU har fastsatt en bindende grenseverdi og/eller anmerkning av stoffet. |
|                                     | EU                |             | 0.025   |        |         |         |            | (R), A2 - Pulm fibrosis, lung cancer                                                                                                                                          |
|                                     | NDS               | POLAND      | 2.000   |        |         |         |            | frakcja wdychalna                                                                                                                                                             |
|                                     | NDS               | POLAND      | 0.300   |        |         |         |            | frakcja respirabilna                                                                                                                                                          |
|                                     | NDS               | POLAND      | 0.100   |        |         |         |            |                                                                                                                                                                               |
|                                     | National PORTUGAL |             | 0.025   |        |         |         |            |                                                                                                                                                                               |
|                                     | National ROMANIA  |             | 0.100   |        |         |         |            |                                                                                                                                                                               |
|                                     | National SLOVAKIA |             | 0.100   |        | 0.500   |         |            |                                                                                                                                                                               |
|                                     | National SLOVENIA |             | 0.1     |        |         |         |            |                                                                                                                                                                               |
|                                     | National SPAIN    |             | 0.050   |        |         |         |            |                                                                                                                                                                               |
|                                     | National SWEDEN   |             | 0.100   |        |         |         |            | Respirabel fraktion.<br>Respirable fraction<br>C: Ämnet är cancerframkallande.<br>M: Medicinska kontroller.                                                                   |
|                                     | National SWEDEN   |             | 200.000 | 50.000 | 600.000 | 150.000 |            | SWEDEN, Short-term value, 15 minutes average value                                                                                                                            |
|                                     | National NORWAY   |             | 100.000 | 25.000 | 400.000 | 100.000 |            | A E                                                                                                                                                                           |
|                                     | EU                |             |         | 50.000 |         | 100.000 |            |                                                                                                                                                                               |
|                                     | ACGIH             |             |         | 50.000 |         | 100.000 |            | DSEN, A4 - URT and eye irr, body weight eff, pulm edema                                                                                                                       |
|                                     | National POLAND   |             | 100.000 |        | 300.000 |         |            |                                                                                                                                                                               |
|                                     | National HUNGARY  |             | 415.000 |        |         |         |            |                                                                                                                                                                               |
|                                     | ACGIH             |             |         | 50.000 |         | 100.000 |            | A4 - Not Classifiable as a Human Carcinogen;body weight effects;eye and upper respiratory tract irritation;pulmonary edema;dermal sensitizer                                  |
|                                     | TUR               | TURKEY      |         | 50     |         | 100     |            |                                                                                                                                                                               |
|                                     | EU                |             |         | 50     |         | 100     | Indicative |                                                                                                                                                                               |
|                                     | DFG               | GERMANY     | C       |        | 420     | 100     |            |                                                                                                                                                                               |
|                                     | National SWEDEN   |             | 200     | 50     |         |         |            |                                                                                                                                                                               |
|                                     | National FRANCE   |             | 205     | 50     | 410     | 100     |            |                                                                                                                                                                               |
|                                     | National SPAIN    |             |         | 50     |         | 100     |            |                                                                                                                                                                               |
|                                     | National GREECE   |             |         | 50     |         | 100     |            |                                                                                                                                                                               |
|                                     | National DENMARK  |             | 102     | 25     |         |         |            |                                                                                                                                                                               |
|                                     | National FINLAND  |             | 42      | 10     | 210     | 50      |            |                                                                                                                                                                               |
|                                     | National GERMANY  |             | 210     | 50     |         |         |            |                                                                                                                                                                               |
|                                     | National PORTUGAL |             |         | 50     |         | 100     |            |                                                                                                                                                                               |
|                                     | National NORWAY   |             | 100     | 25     | 400     | 100     |            |                                                                                                                                                                               |
|                                     | National BELGIUM  |             | 208     | 50     | 416     | 100     |            |                                                                                                                                                                               |
|                                     | NDS               | POLAND      | 100     |        |         |         |            |                                                                                                                                                                               |
|                                     | NDSch             | POLAND      |         |        | 300     |         |            |                                                                                                                                                                               |
|                                     | CHE               | SWITZERLAND |         |        | 420     | 100     |            |                                                                                                                                                                               |

|                                                           |                  |                |   |       |       |       |      |
|-----------------------------------------------------------|------------------|----------------|---|-------|-------|-------|------|
| 3-iodo-2-propynylbutylcarbamate (IPBC)<br>CAS: 55406-53-6 | NDS              | NETHERLANDS    |   | 205   |       | 410   |      |
|                                                           | National         | CZECH REPUBLIC |   | 50    |       |       |      |
|                                                           | Malaysi<br>a OEL | MALAYSIA       |   | 410   | 100   |       |      |
|                                                           | National         | ESTONIA        |   |       | 50    |       | 100  |
|                                                           | National         | LATVIA         |   | 10    |       |       |      |
|                                                           | National         | CZECH REPUBLIC | C |       |       | 150   |      |
|                                                           | National         | SLOVAKIA       | C |       |       | 420   |      |
|                                                           | National         | SLOVAKIA       |   |       | 50    |       |      |
|                                                           | National         | SLOVENIA       |   | 210   | 50    | 420   | 100  |
|                                                           | National         | UNITED KINGDOM |   | 208   | 50    | 416   | 100  |
|                                                           | National         | BULGARIA       |   |       | 50    |       | 100  |
|                                                           | National         | ROMANIA        |   | 205   | 50    | 410   | 100  |
|                                                           | National         | LITHUANIA      |   | 208   | 50    | 416   | 100  |
|                                                           | National         | CROATIA        |   |       | 50    |       | 100  |
|                                                           | DFG              | GERMANY        | C |       |       | 0.116 | 0.01 |
|                                                           | National         | GERMANY        |   | 0.058 | 0.005 |       |      |
|                                                           | CHE              | SWITZERLAND    |   |       |       | 0.24  | 0.02 |
|                                                           | National         | SLOVENIA       |   | 0.058 | 0.005 | 0.116 | 0.01 |
|                                                           | DFG              | GERMANY        | C |       |       | 54    | 10   |
| 2-octyl-2H-isothiazol-3-one<br>CAS: 26530-20-1            | National         | GERMANY        |   | 0.05  |       |       |      |
|                                                           | CHE              | SWITZERLAND    |   |       |       | 0.1   |      |
|                                                           | National         | SLOVENIA       |   | 0.05  |       | 0.05  |      |
| formaldehyde<br>CAS: 50-00-0                              | ACGIH            |                | C |       |       |       | 0.3  |
|                                                           | DFG              | GERMANY        | C |       |       | 0.74  | 0.6  |
|                                                           | ACGIH            |                |   |       | 0.1   |       | 0.3  |
|                                                           | National         | SWEDEN         |   | 0.37  | 0.3   |       |      |
|                                                           | National         | FRANCE         |   |       | 0.5   |       | 1    |
|                                                           | National         | SPAIN          |   | 0.37  | 0.3   | 0.74  | 0.6  |
|                                                           | National         | GREECE         |   | 2.5   | 2     | 2.5   | 2    |
|                                                           | National         | DENMARK        | C |       |       | 0.4   | 0.3  |
|                                                           | National         | FINLAND        |   | 0.37  | 0.3   |       |      |
|                                                           | National         | FINLAND        | C |       |       | 1.2   | 1    |
|                                                           | National         | GERMANY        |   | 0.37  | 0.3   |       |      |
|                                                           | National         | NORWAY         |   | 0.6   | 0.5   |       |      |
|                                                           | National         | NORWAY         | C |       |       | 1.2   | 1    |
|                                                           | NDS              | POLAND         |   | 0.37  |       |       |      |
|                                                           | NDSch            | POLAND         |   |       |       | 0.74  |      |
|                                                           | CHE              | SWITZERLAND    |   |       |       | 0.74  | 0.6  |
|                                                           | NDS              | NETHERLANDS    |   | 0.15  |       | 0.5   |      |
|                                                           | National         | CZECH REPUBLIC |   | 0.5   |       |       |      |

DSEN, RSEN, A2 - URT and eye irr

A1 - Confirmed Human Carcinogen;eye and upper respiratory tract irritation;upper respiratory tract cancer;dermal sensitizer; respiratory sensitizer

|                            |   |      |     |      |     |
|----------------------------|---|------|-----|------|-----|
| National HUNGARY           |   | 0.6  |     | 0.6  |     |
| Malaysi<br>a OEL           | C |      |     | 0.37 | 0.3 |
| National PORTUGAL          | C |      |     |      | 0.3 |
| National ESTONIA           |   | 0.6  | 0.5 | 1.2  | 1   |
| National LATVIA            |   | 0.5  |     |      |     |
| National CZECH<br>REPUBLIC | C |      |     | 1    |     |
| National SLOVAKIA          | C |      |     | 0.74 |     |
| National SLOVAKIA          |   | 0.37 | 0.3 |      |     |
| National SLOVENIA          |   | 0.62 | 0.5 | 0.62 | 0.5 |
| National UNITED<br>KINGDOM |   | 2.5  | 2   | 2.5  | 2   |
| National BULGARIA          |   | 1.0  |     | 2.0  |     |
| National ROMANIA           |   | 1.2  | 1   | 3    | 2   |
| National LITHUANIA         |   | 0.6  | 0.5 |      |     |
| National LITHUANIA         | C |      |     | 1.2  | 1   |
| National CROATIA           |   | 2.5  | 2   | 2.5  | 2   |
| EU                         |   | 0.37 | 0.3 |      |     |

Binding

#### Predicted No Effect Concentration (PNEC) values

|                                            | PNEC Limit | Exposure Route                      | Exposure Frequency | Remark   |
|--------------------------------------------|------------|-------------------------------------|--------------------|----------|
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5 | 1.1 mg/l   | Fresh Water                         |                    |          |
|                                            | 0.11 mg/l  | Marine water                        |                    |          |
|                                            | 4.4 mg/kg  | Freshwater sediments                |                    |          |
|                                            | 0.44 mg/kg | Marine water sediments              |                    |          |
|                                            | 0.32 mg/kg | Soil                                |                    |          |
| Adipohydrazide<br>CAS: 1071-93-8           | 200 mg/l   | Microorganisms in sewage treatments |                    |          |
|                                            | 11 mg/l    | Intermittent release                |                    |          |
|                                            | 62         | Fresh Water                         |                    | µg/l     |
|                                            | 6.2        | Marine water                        |                    | µg/l     |
|                                            | 92         | Intermittent release                |                    | µg/l     |
|                                            | 7.8        | Freshwater sediments                |                    | µg/kg dw |
|                                            | 0.78       | Marine water sediments              |                    | µg/kg dw |
| methyl methacrylate<br>CAS: 80-62-6        | 19         | Soil                                |                    | µg/kg dw |
|                                            | 1000 mg/l  | Microorganisms in sewage treatments |                    |          |
|                                            | 0.94 mg/l  | Fresh Water                         |                    |          |
|                                            | 0.94 mg/l  | Marine water                        |                    |          |
|                                            | 5.74 mg/kg | Freshwater sediments                |                    |          |
| formaldehyde                               | 1.47 mg/kg | Soil                                |                    |          |
|                                            | 10 mg/l    | Microorganisms in sewage treatments |                    |          |
|                                            | 0.47 mg/l  | Fresh Water                         |                    |          |

|            |                                        |
|------------|----------------------------------------|
| 0.47 mg/l  | Marine water                           |
| 4.7 mg/l   | Intermittent release                   |
| 0.19 mg/l  | Microorganisms in<br>sewage treatments |
| 2.44 mg/kg | Freshwater<br>sediments                |
| 2.44 mg/kg | Marine water<br>sediments              |
| 0.21 mg/kg | Soil                                   |

**Derived No Effect Level (DNEL) values**

|                                            | <b>Worker Industrial</b> | <b>Worker Professional</b> | <b>Consumer</b>          | <b>Exposure Route</b> | <b>Exposure Frequency</b> | <b>Remark</b>               |
|--------------------------------------------|--------------------------|----------------------------|--------------------------|-----------------------|---------------------------|-----------------------------|
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5 | 83 mg/kg                 |                            |                          | Human Dermal          |                           | Long Term, systemic effects |
|                                            | 101 mg/m <sup>3</sup>    |                            |                          | Human Inhalation      |                           | Short Term, local effects   |
|                                            | 67.5 mg/m <sup>3</sup>   |                            |                          | Human Inhalation      |                           | Long Term, systemic effects |
|                                            | 67.5 mg/m <sup>3</sup>   |                            |                          | Human Inhalation      |                           | Long Term, local effects    |
| Adipohydrazide<br>CAS: 1071-93-8           | 8.6 mg/m <sup>3</sup>    |                            |                          | Human Inhalation      |                           | Long Term, systemic effects |
| methyl methacrylate<br>CAS: 80-62-6        | 210 mg/m <sup>3</sup>    |                            | 200 mg/m <sup>3</sup>    | Human Inhalation      |                           | Long Term, local effects    |
|                                            | 1.5 mg/cm <sup>2</sup>   |                            | 1.5 mg/cm <sup>2</sup>   | Human Dermal          |                           | Long Term, local effects    |
|                                            | 210 mg/m <sup>3</sup>    |                            | 74.3 mg/m <sup>3</sup>   | Human Inhalation      |                           | Long Term, systemic effects |
|                                            | 13.67 mg/kg              |                            | 8.2 mg/kg                | Human Dermal          |                           | Long Term, systemic effects |
|                                            | 1.5 mg/cm <sup>2</sup>   |                            | 1.5 mg/cm <sup>2</sup>   | Human Dermal          |                           | Short Term, local effects   |
| formaldehyde<br>CAS: 50-00-0               | 1 mg/m <sup>3</sup>      |                            |                          | Human Inhalation      |                           | Short Term, local effects   |
|                                            | 240 mg/kg                |                            | 102 mg/kg                | Human Dermal          |                           | Long Term, systemic effects |
|                                            | 9 mg/m <sup>3</sup>      |                            | 3.2 mg/m <sup>3</sup>    | Human Inhalation      |                           | Long Term, systemic effects |
|                                            | 0.037 mg/cm <sup>2</sup> |                            | 0.012 mg/cm <sup>2</sup> | Human Dermal          |                           | Long Term, local effects    |
|                                            | 0.5 mg/m <sup>3</sup>    |                            | 0.1 mg/m <sup>3</sup>    | Human Inhalation      |                           | Long Term, local effects    |
|                                            |                          |                            | 4.1 mg/kg                | Human Oral            |                           | Long Term, systemic effects |

**8.2. Exposure controls**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

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

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

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

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

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.

#### 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: paste

Color: various

Odour: Characteristic

Odour threshold: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: Not available

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: 8.50

Viscosity: Not available

Kinematic viscosity: Not available

Solubility in water: Not available

Solubility in oil: Not available

Partition coefficient (n-octanol/water): Not available

Vapour pressure: Not available

Relative density: 1.30 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

None in particular.

### 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<br>Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation         | Not classified<br>Based on available data, the classification criteria are not met |
| c) serious eye damage/irritation     | Not classified<br>Based on available data, the classification criteria are not met |
| d) respiratory or skin sensitisation | Not classified<br>Based on available data, the classification criteria are not met |
| e) germ cell mutagenicity            | Not classified<br>Based on available data, the classification criteria are not met |
| f) carcinogenicity                   | Not classified<br>Based on available data, the classification criteria are not met |
| g) reproductive toxicity             | Not classified<br>Based on available data, the classification criteria are not met |
| h) STOT-single exposure              | Not classified<br>Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure            | Not classified<br>Based on available data, the classification criteria are not met |
| j) aspiration hazard                 | Not classified<br>Based on available data, the classification criteria are not met |

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

|                                                          |                                  |                                                                                                |
|----------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------|
| 2-(2-butoxyethoxy)ethanol                                | a) acute toxicity                | LD50 Skin Rabbit = 2700 mg/kg<br>LD50 Oral Rat = 5660 mg/kg                                    |
|                                                          |                                  |                                                                                                |
| polyethylene glycol monooleylether                       | a) acute toxicity                | LD50 Oral Rat 2700 mg/kg<br>LD50 Oral Rat = 2700 mg/kg                                         |
|                                                          |                                  |                                                                                                |
| Adipohydrazide                                           | a) acute toxicity                | LD50 Oral Rat > 2000 mg/kg<br>LC50 Inhalation Dust Rat > 5.3 mg/kg 4h                          |
|                                                          |                                  |                                                                                                |
| Paraffin oils, sulfochlorinated, saponified              | a) acute toxicity                | LD50 Oral Rat = 1271 mg/kg<br>LD50 Skin Rat > 2000 mg/kg                                       |
|                                                          | b) skin corrosion/irritation     | Skin Irritant Positive                                                                         |
|                                                          | c) serious eye damage/irritation | Eye Irritant Yes                                                                               |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | a) acute toxicity                | LD50 Oral Rat = 670 mg/kg                                                                      |
| free crystalline silica (Ø <10 µ)                        | a) acute toxicity                | LD50 Oral Rat = 500 mg/kg                                                                      |
| methyl methacrylate                                      | a) acute toxicity                | LD50 Oral Rat > 5000 mg/kg<br>LD50 Skin Rabbit > 5000 mg/kg<br>LC50 Inhalation Rat = 29.8 mg/l |
|                                                          |                                  |                                                                                                |
|                                                          |                                  |                                                                                                |
| 3-iodo-2-propynylbutylcarbamate (IPBC)                   | a) acute toxicity                | LD50 Skin Rat > 2000 mg/kg<br>LD50 Oral Rat = 1470 mg/kg                                       |
|                                                          |                                  |                                                                                                |

|                                                                                                                                        |                   |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------|
|                                                                                                                                        |                   | LC50 Inhalation Rat = 0.67 mg/l 4h      |
|                                                                                                                                        |                   | LC50 Inhalation Rat = 0.63 mg/l 4h      |
|                                                                                                                                        |                   | LC50 Inhalation Rat = 0.99 mg/l 4h      |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | a) acute toxicity | LC50 Inhalation Rat = 2.36 mg/l 4h      |
|                                                                                                                                        |                   | LD50 Skin Rabbit = 660 mg/kg            |
|                                                                                                                                        |                   | LD50 Oral Rat = 53 mg/kg                |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one                                                                                               | a) acute toxicity | ATE - Oral : 567 mg/kg bw               |
|                                                                                                                                        |                   | LC50 Inhalation Dust Rat = 0.16 mg/l    |
|                                                                                                                                        |                   | LD50 Oral Rat = 567 mg/kg               |
| 2-octyl-2H-isothiazol-3-one                                                                                                            | a) acute toxicity | ATE - Oral : 125 mg/kg bw               |
|                                                                                                                                        |                   | ATE - Dermal : 311 mg/kg bw             |
|                                                                                                                                        |                   | LD50 Oral Rat = 318 mg/kg               |
|                                                                                                                                        |                   | LD50 Skin Rabbit = 311 mg/kg            |
|                                                                                                                                        |                   | LC50 Inhalation Dust Rat = 0.58 mg/l 4h |
| formaldehyde                                                                                                                           | a) acute toxicity | LD50 Oral Rat = 700 mg/kg               |
|                                                                                                                                        |                   | LC50 Inhalation Rat = 0.578 mg/l        |
|                                                                                                                                        |                   | LD50 Skin Rabbit = 270 mg/kg            |
|                                                                                                                                        |                   | LD50 Skin Rabbit = 270 mg/kg            |
|                                                                                                                                        |                   | LC50 Inhalation Rat = 0.578 mg/l 4h     |
|                                                                                                                                        |                   | LD50 Oral Rat = 100 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:

Harmful 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 3(H412)

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

| Component                 | Ident. Numb.                                                  | Ecotox Data                                                                                                                                                                                                                                                                |
|---------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-(2-butoxyethoxy)ethanol | CAS: 112-34-5 -<br>EINECS: 203-961-6 - INDEX:<br>603-096-00-8 | a) Aquatic acute toxicity : LC50 Fish <i>Lepomis macrochirus</i> = 1300 mg/L 96h EPA<br><br>a) Aquatic acute toxicity : EC50 <i>Daphnia magna</i> > 100 mg/L 48h IUCLID<br><br>a) Aquatic acute toxicity : EC50 <i>Algae Desmodesmus subspicatus</i> > 100 mg/L 96h IUCLID |
| Adipohydrazide            | CAS: 1071-93-8 -<br>EINECS: 213-999-5                         | a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h                                                                                                                                                                                                                       |

|                                                                                                                                       |                                                           |                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------|
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : EC50 Algae = 9.2 mg/L 72h                        |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : EC50 Daphnia > 106 mg/L 48h                      |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 100 mg/L 96h ECHA    |
| Paraffin oils, sulfochlorinated, saponified                                                                                           | CAS: 68188-18-1 - EINECS: 269-144-1                       | a) Aquatic acute toxicity : LC50 Fish = 1.1 mg/L 96h                         |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : EC50 Daphnia = 3.25 mg/L 48h                     |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                                                              | CAS: 2634-33-5 - EINECS: 220-120-9 - INDEX: 613-088-00-6  | a) Aquatic acute toxicity : LC50 Fish = 2.15 mg/L                            |
|                                                                                                                                       |                                                           | b) Aquatic chronic toxicity : NOEC Algae = 0.0403 mg/L 72h                   |
|                                                                                                                                       |                                                           | b) Aquatic chronic toxicity : EC50 Algae = 0.11 mg/L 72h                     |
|                                                                                                                                       |                                                           | b) Aquatic chronic toxicity : EC10 Algae = 0.04 mg/L 72h                     |
|                                                                                                                                       |                                                           | b) Aquatic chronic toxicity : EC50 Daphnia = 3.27 mg/L 48h                   |
|                                                                                                                                       |                                                           | NOEC Daphnia = 1.2 mg/L 21d                                                  |
| methyl methacrylate                                                                                                                   | CAS: 80-62-6 - EINECS: 201-297-1 - INDEX: 607-035-00-6    | a) Aquatic acute toxicity : EC50 Algae = 110 mg/L 72h ECHA                   |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 69 mg/L 48h ECHA    |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h ECHA                    |
| 3-iodo-2-propynylbutylcarbamate (IPBC)                                                                                                | CAS: 55406-53-6 - EINECS: 259-627-5 - INDEX: 616-212-00-7 | a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 0.14 mg/L 96h EPA  |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 0.049 mg/L 96h EPA |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 0.05 mg/L 96h EPA  |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 0.18 mg/L 96h EPA  |
|                                                                                                                                       |                                                           | G : LD50 Avian Colinus virginianus = 749 mg/kg NZ_CCID                       |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | CAS: 55965-84-9 - EINECS: 611-341-5 - INDEX: 613-167-00-5 | a) Aquatic acute toxicity : EC50 Daphnia = 0.12 mg/L 48                      |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : LC50 Fish = 0.22 mg/L 96                         |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : EC50 Algae = 0.048 mg/L 72                       |
|                                                                                                                                       |                                                           | b) Aquatic chronic toxicity : NOEC Algae = 0.0012 mg/L 72                    |
|                                                                                                                                       |                                                           | b) Aquatic chronic toxicity : NOEC Fish = 0.098 mg/L - 28 d                  |
|                                                                                                                                       |                                                           | b) Aquatic chronic toxicity : NOEC Daphnia = 0.004 mg/L - 21 d               |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one                                                                                              | CAS: 64359-81-5 - EINECS: 264-843-8 - INDEX: 613-335-00-8 | a) Aquatic acute toxicity : EC50 Daphnia = mg/L 48                           |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : EC50 Algae = mg/L 72                             |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : LC50 Fish = mg/L 96                              |
|                                                                                                                                       |                                                           | b) Aquatic chronic toxicity : NOEC Daphnia = mg/L                            |
|                                                                                                                                       |                                                           | b) Aquatic chronic toxicity : NOEC Fish = mg/L                               |
| 2-octyl-2H-isothiazol-3-one                                                                                                           | CAS: 26530-20-1 - EINECS: 247-761-7 - INDEX: 613-112-00-5 | a) Aquatic acute toxicity : EC50 Daphnia = 0.42 mg/L 48                      |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : EC50 Algae = 0.084 mg/L 72                       |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : LC50 Fish = 0.036 mg/L 96                        |
|                                                                                                                                       |                                                           | a) Aquatic acute toxicity : LC50 Fish = 0.18 mg/L 96                         |

formaldehyde

CAS: 50-00-0 -  
EINECS: 200-  
001-8 - INDEX:  
605-001-00-5

b) Aquatic chronic toxicity : NOEC Daphnia = 0.002 mg/L - 21 d

b) Aquatic chronic toxicity : NOEC Fish = 0.022 mg/L - 28 d

b) Aquatic chronic toxicity : NOEC Algae = 0.004 mg/L 72

a) Aquatic acute toxicity : LC50 Fish = 41 mg/L 96

a) Aquatic acute toxicity : EC50 Daphnia = 42 mg/L 24

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 22.6 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 1510 µg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 41 mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 0.032 mL/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 100 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 23.2 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 2 mg/L 48h IUCLID

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 11.3 mg/L 48h EPA

## 12.2. Persistence and degradability

| Component | Persistence/Degradability: |
|-----------|----------------------------|
|-----------|----------------------------|

|                |                       |
|----------------|-----------------------|
| Adipohydrazide | Readily biodegradable |
|----------------|-----------------------|

|                                             |                       |
|---------------------------------------------|-----------------------|
| Paraffin oils, sulfochlorinated, saponified | Readily biodegradable |
|---------------------------------------------|-----------------------|

## 12.3. Bioaccumulative potential

| Component | Bioaccumulation |
|-----------|-----------------|
|-----------|-----------------|

|                |                     |
|----------------|---------------------|
| Adipohydrazide | Not bioaccumulative |
|----------------|---------------------|

## 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  $\geq 0.1\%$

## 12.6. Endocrine disrupting properties

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

## 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

Not classified as dangerous in the meaning of transport regulations.

### 14.1. UN number or ID number

Not Applicable

### 14.2. UN proper shipping name

Not Applicable

### 14.3. Transport hazard class(es)

Not Applicable

### 14.4. Packing group

Not Applicable

### 14.5. Environmental hazards

Not Applicable

### 14.6. Special precautions for user

Not Applicable

Road and Rail (ADR-RID):

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

### 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) : 50 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)

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

None

### 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

Restrictions related to the substances contained: 28, 40, 55, 72, 75

### SVHC Substances:

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

### National regulations

Produktregisteret Norge: 635897

MAL-kode: 00-3 (1993)

**German Water Hazard Class.**

Class 3: extremely hazardous.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

| Code | Description                                                     |
|------|-----------------------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                             |
| H301 | Toxic if swallowed.                                             |
| H302 | Harmful if swallowed.                                           |
| H311 | Toxic in contact with skin.                                     |
| H314 | Causes severe skin burns and eye damage.                        |
| H315 | Causes skin irritation.                                         |
| H317 | May cause an allergic skin reaction.                            |
| H319 | Causes serious eye irritation.                                  |
| H331 | Toxic if inhaled.                                               |
| H335 | May cause respiratory irritation.                               |
| H341 | Suspected of causing genetic defects.                           |
| H350 | May cause cancer.                                               |
| H361 | Suspected of damaging fertility or the unborn child.            |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.                                     |
| H411 | Toxic to aquatic life with long lasting effects.                |
| H412 | Harmful to aquatic life with long lasting effects.              |

| Code | Description                                                     |
|------|-----------------------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                             |
| H301 | Toxic if swallowed.                                             |
| H302 | Harmful if swallowed.                                           |
| H311 | Toxic in contact with skin.                                     |
| H314 | Causes severe skin burns and eye damage.                        |
| H315 | Causes skin irritation.                                         |
| H317 | May cause an allergic skin reaction.                            |
| H319 | Causes serious eye irritation.                                  |
| H331 | Toxic if inhaled.                                               |
| H335 | May cause respiratory irritation.                               |
| H341 | Suspected of causing genetic defects.                           |
| H350 | May cause cancer.                                               |
| H361 | Suspected of damaging fertility or the unborn child.            |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.                                     |
| H411 | Toxic to aquatic life with long lasting effects.                |
| H412 | Harmful to aquatic life with long lasting effects.              |

| Code         | Hazard class and hazard category | Description                                                    |
|--------------|----------------------------------|----------------------------------------------------------------|
| 2.6/2        | Flam. Liq. 2                     | Flammable liquid, Category 2                                   |
| 3.1/3/Dermal | Acute Tox. 3                     | Acute toxicity (dermal), Category 3                            |
| 3.1/3/Inhal  | Acute Tox. 3                     | Acute toxicity (inhalation), Category 3                        |
| 3.1/3/Oral   | Acute Tox. 3                     | Acute toxicity (oral), Category 3                              |
| 3.1/4/Oral   | Acute Tox. 4                     | Acute toxicity (oral), Category 4                              |
| 3.2/1B       | Skin Corr. 1B                    | Skin corrosion, Category 1B                                    |
| 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                                 |
| 3.5/2        | Muta. 2                          | Germ cell mutagenicity, Category 2                             |
| 3.6/1B       | Carc. 1B                         | Carcinogenicity, Category 1B                                   |
| 3.7/2        | Repr. 2                          | Reproductive toxicity, Category 2                              |
| 3.8/3        | STOT SE 3                        | Specific target organ toxicity — single exposure, Category 3   |
| 3.9/1        | STOT RE 1                        | Specific target organ toxicity — repeated exposure, Category 1 |
| 4.1/A1       | Aquatic Acute 1                  | Acute aquatic hazard, category 1                               |
| 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]:**

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|-----------------------------------------------------------|--------------------------|
| 4.1/C3                                                    | 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.

