

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

#### 1.1. Product identifier

Code: 540.20I.001  
Product name: SATIPOL 800/20  
UFI: AR5F-C0RK-V00Y-TAM9

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

Intended use: Paint - Transparent polyester finish

| Identified Uses | Industrial                                                                          | Professional | Consumer |
|-----------------|-------------------------------------------------------------------------------------|--------------|----------|
| SPRAY PAINTING  | SU: 18, 6a.<br>ERC: 5.<br>PROC: 11, 7.<br>AC: 11a, 11e, 11g.<br>PC: 9a.<br>LCS: IS. | ✓            | -        |

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

Name: ASTRA VERNICI S.R.L.  
Full address: Via Della Industria, 4  
District and Country: 24052 Azzano San Paolo (BG)  
Italy  
Tel.: +39 035 530019  
Fax: +39 035 531714  
e-mail address of the competent person responsible for the Safety Data Sheet: msds@astravernici.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
**REPUBLIC OF IRELAND :**  
National Poisons Information Centre  
24 hours per day and 365 days a year  
01 837 9964  
01 809 2566

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND :**  
National Health Service (NHS)  
Telephone number: 111  
Emergency number : 999

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

##### Hazard classification and indication:

|                                                                |       |                                                                 |
|----------------------------------------------------------------|-------|-----------------------------------------------------------------|
| Flammable liquid, category 2                                   | H225  | Highly flammable liquid and vapour.                             |
| Carcinogenicity, category 2                                    | H351  | Suspected of causing cancer.                                    |
| Reproductive toxicity, category 2                              | H361d | Suspected of damaging the unborn child.                         |
| Specific target organ toxicity - repeated exposure, category 1 | H372  | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard, category 1                                  | H304  | May be fatal if swallowed and enters airways.                   |
| Eye irritation, category 2                                     | H319  | Causes serious eye irritation.                                  |

## SECTION 2. Hazards identification ... / >>

|                                                                    |      |                                                    |
|--------------------------------------------------------------------|------|----------------------------------------------------|
| Skin irritation, category 2                                        | H315 | Causes skin irritation.                            |
| Specific target organ toxicity - single exposure, category 3       | H335 | May cause respiratory irritation.                  |
| Hazardous to the aquatic environment, chronic toxicity, category 3 | H412 | Harmful to aquatic life with long lasting effects. |

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| <b>H225</b>   | Highly flammable liquid and vapour.                             |
| <b>H351</b>   | Suspected of causing cancer.                                    |
| <b>H361d</b>  | Suspected of damaging the unborn child.                         |
| <b>H372</b>   | Causes damage to organs through prolonged or repeated exposure. |
| <b>H304</b>   | May be fatal if swallowed and enters airways.                   |
| <b>H319</b>   | Causes serious eye irritation.                                  |
| <b>H315</b>   | Causes skin irritation.                                         |
| <b>H335</b>   | May cause respiratory irritation.                               |
| <b>H412</b>   | Harmful to aquatic life with long lasting effects.              |
| <b>EUH208</b> | Contains: MALEIC ANHYDRIDE<br>May produce an allergic reaction. |

Precautionary statements:

|                  |                                                                                                |
|------------------|------------------------------------------------------------------------------------------------|
| <b>P210</b>      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| <b>P260</b>      | Do not breathe dust / fume / gas / mist / vapours / spray.                                     |
| <b>P331</b>      | Do NOT induce vomiting.                                                                        |
| <b>P280</b>      | Wear protective gloves/ protective clothing / eye protection / face protection.                |
| <b>P301+P310</b> | IF SWALLOWED: immediately call a POISON CENTER / doctor.                                       |
| <b>P370+P378</b> | In case of fire: Use dry chemical or CO2 to extinguish.                                        |

**Contains:** ISOBUTYL METHYL KETONE  
TOLUENE  
STYRENE

Product not intended for uses provided for by Directive 2004/42/EC.

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### SECTION 3. Composition/information on ingredients ... / >>

#### 3.2. Mixtures

Contains:

| Identification                         | x = Conc. %       | Classification (EC) 1272/2008 (CLP)                                                                                                                                                                                                                                               |
|----------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STYRENE</b>                         |                   |                                                                                                                                                                                                                                                                                   |
| INDEX 601-026-00-0                     | 25 ≤ x < 30       | Flam. Liq. 3 H226, Repr. 2 H361d, Acute Tox. 4 H332, STOT RE 1 H372, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: D<br>LC50 Inhalation vapours: 11,8 mg/l/4h |
| EC 202-851-5                           |                   |                                                                                                                                                                                                                                                                                   |
| CAS 100-42-5                           |                   |                                                                                                                                                                                                                                                                                   |
| REACH Reg. 01-2119457861-32-xxxx       |                   |                                                                                                                                                                                                                                                                                   |
| <b>ISOBUTYL METHYL KETONE</b>          |                   |                                                                                                                                                                                                                                                                                   |
| INDEX 606-004-00-4                     | 10 ≤ x < 10,05    | Flam. Liq. 2 H225, Carc. 2 H351, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066<br>LC50 Inhalation vapours: 11 mg/l/4h                                                                                                                                              |
| EC 203-550-1                           |                   |                                                                                                                                                                                                                                                                                   |
| CAS 108-10-1                           |                   |                                                                                                                                                                                                                                                                                   |
| REACH Reg. 01-2119473980-30-xxxx       |                   |                                                                                                                                                                                                                                                                                   |
| <b>TOLUENE</b>                         |                   |                                                                                                                                                                                                                                                                                   |
| INDEX 601-021-00-3                     | 4,798 ≤ x < 4,848 | Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412                                                                                                                                                    |
| EC 203-625-9                           |                   |                                                                                                                                                                                                                                                                                   |
| CAS 108-88-3                           |                   |                                                                                                                                                                                                                                                                                   |
| REACH Reg. 01-2119471310-51-xxxx       |                   |                                                                                                                                                                                                                                                                                   |
| <b>ETHYL ACETATE</b>                   |                   |                                                                                                                                                                                                                                                                                   |
| INDEX 607-022-00-5                     | 3 ≤ x < 3,05      | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066                                                                                                                                                                                                                      |
| EC 205-500-4                           |                   |                                                                                                                                                                                                                                                                                   |
| CAS 141-78-6                           |                   |                                                                                                                                                                                                                                                                                   |
| REACH Reg. 01-2119475103-46-xxxx       |                   |                                                                                                                                                                                                                                                                                   |
| <b>2-METHOXY-1-METHYLETHYL ACETATE</b> |                   |                                                                                                                                                                                                                                                                                   |
| INDEX 607-195-00-7                     | 0,1 ≤ x < 0,11    | Flam. Liq. 3 H226                                                                                                                                                                                                                                                                 |
| EC 203-603-9                           |                   |                                                                                                                                                                                                                                                                                   |
| CAS 108-65-6                           |                   |                                                                                                                                                                                                                                                                                   |
| REACH Reg. 01-2119475791-29-xxxx       |                   |                                                                                                                                                                                                                                                                                   |
| <b>MALEIC ANHYDRIDE</b>                |                   |                                                                                                                                                                                                                                                                                   |
| INDEX 607-096-00-9                     | 0,02 ≤ x < 0,04   | Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1B H314, Eye Dam. 1 H318, Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071<br>LD50 Oral: 400 mg/kg                                                                                                                                    |
| EC 203-571-6                           |                   |                                                                                                                                                                                                                                                                                   |
| CAS 108-31-6                           |                   |                                                                                                                                                                                                                                                                                   |
| REACH Reg. 01-2119463268-32-xxxx       |                   |                                                                                                                                                                                                                                                                                   |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

#### Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

**SECTION 4. First aid measures** ... / >>**4.2. Most important symptoms and effects, both acute and delayed**

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF exposed or concerned: Get medical advice / attention.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

**SECTION 5. Firefighting measures****5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

**5.2. Special hazards arising from the substance or mixture****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

**5.3. Advice for firefighters****GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

2-METHOXY-1-METHYLETHYL ACETATE

Store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory references:

|     |                 |                                                                                                                                                                                                                                                                                                                                                        |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BGR | България        | НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)                                                                                                                                                                                         |
| CZE | Česká Republika | NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci                                                                                                                                                                                                              |
| DEU | Deutschland     | Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58                                                                                                                                                                                                          |
| DNK | Danmark         | Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019                                                                                                                                                                                                                                                                  |
| ESP | España          | Límites de exposición profesional para agentes químicos en España 2023                                                                                                                                                                                                                                                                                 |
| FRA | France          | Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021                                                                                                                                                                                                                                     |
| GRC | Ελλάδα          | Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"» |
| HUN | Magyarország    | Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                                                                                                                                                    |
| HRV | Hrvatska        | Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)                                                                                                                                                          |
| ITA | Italia          | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                                                                                                                                                                                                                |
| LTU | Lietuva         | Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo                                                                                                                                                                          |
| PRT | Portugal        | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos                                                                |
| POL | Polska          | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy                                                                                                                                    |
| ROU | România         | Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006                                                                                                                                                                                          |
| RUS | Россия          | ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК) ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"                                                                                                                                                                     |
| SVN | Slovenija       | Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)                                                                                                                                                                |
| TUR | Türkiye         | Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733; 20.10.2023 / 32345.                                                                                                                                                                                                                              |
| GBR | United Kingdom  | EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                                                                                                                                                              |

### SECTION 8. Exposure controls/personal protection ... / >>

EU OEL EU Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2023

#### 2-METHOXY-1-METHYLETHYL ACETATE

##### Threshold Limit Value

| Type      | Country | TWA/8h |       | STEL/15min |       | Remarks / Observations |
|-----------|---------|--------|-------|------------|-------|------------------------|
|           |         | mg/m3  | ppm   | mg/m3      | ppm   |                        |
| TLV       | BGR     | 275    | 50    | 550        | 100   | SKIN                   |
| TLV       | CZE     | 270    | 49,14 | 550        | 100,1 | SKIN                   |
| AGW       | DEU     | 270    | 50    | 270        | 50    |                        |
| MAK       | DEU     | 270    | 50    | 270        | 50    |                        |
| TLV       | DNK     | 275    | 50    | 550        | 100   | SKIN E                 |
| VLA       | ESP     | 275    | 50    | 550        | 100   | SKIN                   |
| VLEP      | FRA     | 275    | 50    | 550        | 100   | SKIN                   |
| TLV       | GRC     | 275    | 50    | 550        | 100   |                        |
| AK        | HUN     | 275    | 50    | 550        | 100   |                        |
| GVI/KGVI  | HRV     | 275    | 50    | 550        | 100   | SKIN                   |
| VLEP      | ITA     | 275    | 50    | 550        | 100   | SKIN                   |
| RD        | LTU     | 250    | 50    | 400        | 75    | SKIN                   |
| VLE       | PRT     | 275    | 50    | 550        | 100   | SKIN                   |
| NDS/NDSch | POL     | 260    |       | 520        |       | SKIN                   |
| TLV       | ROU     | 275    | 50    | 550        | 100   | SKIN                   |
| ПДК       | RUS     |        |       | 10         |       | n                      |
| MV        | SVN     | 275    | 50    | 550        | 100   | SKIN                   |
| ESD       | TUR     | 275    | 50    | 550        | 100   | SKIN                   |
| WEL       | GBR     | 274    | 50    | 548        | 100   | SKIN                   |
| OEL       | EU      | 275    | 50    | 550        | 100   | SKIN                   |

#### TOLUENE

##### Threshold Limit Value

| Type      | Country | TWA/8h |        | STEL/15min |         | Remarks / Observations |
|-----------|---------|--------|--------|------------|---------|------------------------|
|           |         | mg/m3  | ppm    | mg/m3      | ppm     |                        |
| TLV       | BGR     | 192    | 50     | 384        | 100     | SKIN                   |
| TLV       | CZE     | 192    | 50,112 | 384        | 100,224 | SKIN                   |
| AGW       | DEU     | 190    | 50     | 760        | 200     | SKIN                   |
| MAK       | DEU     | 190    | 50     | 380        | 100     | SKIN                   |
| TLV       | DNK     | 94     | 25     | 384        | 100     | SKIN E                 |
| VLA       | ESP     | 192    | 50     | 384        | 100     | SKIN                   |
| VLEP      | FRA     | 76,8   | 20     | 384        | 100     | SKIN                   |
| TLV       | GRC     | 192    | 50     | 384        | 100     |                        |
| AK        | HUN     | 192    | 50     | 384        | 100     | SKIN                   |
| GVI/KGVI  | HRV     | 192    | 50     | 384        | 100     | SKIN                   |
| VLEP      | ITA     | 192    | 50     |            |         | SKIN                   |
| RD        | LTU     | 192    | 50     | 384        | 100     | SKIN                   |
| VLE       | PRT     | 192    | 50     | 384        | 100     | SKIN                   |
| NDS/NDSch | POL     | 100    |        | 200        |         | SKIN                   |
| TLV       | ROU     | 192    | 50     | 384        | 100     | SKIN                   |
| ПДК       | RUS     | 50     |        | 150        |         | n                      |
| MV        | SVN     | 192    | 50     | 384        | 100     | SKIN                   |
| ESD       | TUR     | 192    | 50     | 384        | 100     | SKIN                   |
| WEL       | GBR     | 191    | 50     | 384        | 100     | SKIN                   |
| OEL       | EU      | 192    | 50     | 384        | 100     | SKIN                   |
| TLV-ACGIH |         |        | 20     |            |         |                        |

### SECTION 8. Exposure controls/personal protection ... / >>

#### STYRENE

| Threshold Limit Value |         |        |      |            |         |                        |
|-----------------------|---------|--------|------|------------|---------|------------------------|
| Type                  | Country | TWA/8h |      | STEL/15min |         | Remarks / Observations |
|                       |         | mg/m3  | ppm  | mg/m3      | ppm     |                        |
|                       |         |        |      |            |         |                        |
| TLV                   | BGR     | 85     |      | 215        |         |                        |
| TLV                   | CZE     | 100    | 23,1 | 400        | 92,4    |                        |
| AGW                   | DEU     | 86     | 20   | 172        | 40      |                        |
| MAK                   | DEU     | 86     | 20   | 172        | 40      |                        |
| TLV                   | DNK     |        |      | 105 (C)    | 25 (C)  | SKIN                   |
| VLA                   | ESP     | 86     | 20   | 172        | 40      |                        |
| VLEP                  | FRA     | 100    | 23,3 | 200        | 46,6    |                        |
| TLV                   | GRC     | 425    | 100  | 1050       | 250     |                        |
| AK                    | HUN     | 86     | 20   | 172        | 40      |                        |
| GVI/KGVI              | HRV     | 430    | 100  | 1080       | 250     | SKIN                   |
| RD                    | LTU     | 90     | 20   | 200        | 50      | SKIN                   |
| NDS/NDSch             | POL     | 50     |      | 100        |         |                        |
| TLV                   | ROU     | 50     | 12   | 150        | 35      |                        |
| ПДК                   | RUS     | 10     |      | 30         |         | n                      |
| MV                    | SVN     | 86     | 20   | 344        | 80      |                        |
| ESD                   | TUR     |        | 100  |            | 200 (C) |                        |
| WEL                   | GBR     | 430    | 100  | 1080       | 250     |                        |
| TLV-ACGIH             |         | 10     |      | 20         |         |                        |

#### ISOBUTYL METHYL KETONE

| Threshold Limit Value |         |        |      |            |     |                        |
|-----------------------|---------|--------|------|------------|-----|------------------------|
| Type                  | Country | TWA/8h |      | STEL/15min |     | Remarks / Observations |
|                       |         | mg/m3  | ppm  | mg/m3      | ppm |                        |
| TLV                   | BGR     | 50     |      | 200        |     |                        |
| TLV                   | CZE     | 80     | 19,2 | 200        | 48  | SKIN                   |
| AGW                   | DEU     | 83     | 20   | 166        | 40  | SKIN                   |
| MAK                   | DEU     | 83     | 20   | 166        | 40  | SKIN                   |
| TLV                   | DNK     | 83     | 20   | 208        | 50  | SKIN E                 |
| VLA                   | ESP     | 83     | 20   | 208        | 50  |                        |
| VLEP                  | FRA     | 83     | 20   | 208        | 50  |                        |
| TLV                   | GRC     | 410    | 100  | 410        | 100 |                        |
| AK                    | HUN     | 83     | 20   | 208        | 50  |                        |
| GVI/KGVI              | HRV     | 83     | 20   | 208        | 50  |                        |
| VLEP                  | ITA     | 83     | 20   | 208        | 50  |                        |
| RD                    | LTU     | 83     | 20   | 208        | 50  |                        |
| VLE                   | PRT     | 83     | 20   | 208        | 50  |                        |
| NDS/NDSch             | POL     | 83     |      | 200        |     |                        |
| TLV                   | ROU     | 83     | 20   | 208        | 50  |                        |
| ПДК                   | RUS     |        |      | 5          |     | n                      |
| MV                    | SVN     | 83     | 20   | 208        | 50  | SKIN                   |
| ESD                   | TUR     | 83     | 20   | 208        | 50  |                        |
| WEL                   | GBR     | 208    | 50   | 416        | 100 | SKIN                   |
| OEL                   | EU      | 83     | 20   | 208        | 50  |                        |
| TLV-ACGIH             |         | 82     | 20   | 307        | 75  |                        |

### SECTION 8. Exposure controls/personal protection ... / >>

#### ETHYL ACETATE

| Threshold Limit Value |         |        |       |            |         |
|-----------------------|---------|--------|-------|------------|---------|
| Type                  | Country | TWA/8h |       | STEL/15min |         |
|                       |         | mg/m3  | ppm   | mg/m3      | ppm     |
| TLV                   | BGR     | 734    | 200   | 1468       | 400     |
| TLV                   | CZE     | 700    | 191,1 | 900        | 245,7   |
| AGW                   | DEU     | 730    | 200   | 1460       | 400     |
| MAK                   | DEU     | 750    | 200   | 1500       | 400     |
| TLV                   | DNK     | 540    | 150   | 1468       | 400     |
| VLA                   | ESP     | 734    | 200   | 1468       | 400     |
| VLEP                  | FRA     | 734    | 200   | 1468       | 400     |
| TLV                   | GRC     | 734    | 200   | 1468       | 400     |
| AK                    | HUN     | 734    | 200   | 1468       | 400     |
| GVI/KGVI              | HRV     | 734    | 200   | 1468       | 400     |
| VLEP                  | ITA     | 734    | 200   | 1468       | 400     |
| RD                    | LTU     | 500    | 150   | 1100 (C)   | 300 (C) |
| VLE                   | PRT     | 734    | 200   | 1468       | 400     |
| NDS/NDSch             | POL     | 734    |       | 1468       |         |
| TLV                   | ROU     | 734    | 200   | 1468       | 400     |
| ПДК                   | RUS     | 50     |       | 200        |         |
| MV                    | SVN     | 734    | 200   | 1468       | 400     |
| ESD                   | TUR     | 734    | 200   | 1468       | 400     |
| WEL                   | GBR     | 734    | 200   | 1468       | 400     |
| OEL                   | EU      | 734    | 200   | 1468       | 400     |
| TLV-ACGIH             |         | 1441   | 400   |            |         |

#### MALEIC ANHYDRIDE

| Threshold Limit Value |         |        |        |            |          |
|-----------------------|---------|--------|--------|------------|----------|
| Type                  | Country | TWA/8h |        | STEL/15min |          |
|                       |         | mg/m3  | ppm    | mg/m3      | ppm      |
| TLV                   | BGR     | 1      |        |            |          |
| TLV                   | CZE     | 1      | 0,245  | 2          | 0,49     |
| AGW                   | DEU     | 0,081  | 0,02   | 0,081      | 0,02     |
| MAK                   | DEU     | 0,081  | 0,02   | 0,081 (C)  | 0,02 (C) |
| TLV                   | DNK     | 0,4    | 0,1    |            |          |
| VLA                   | ESP     | 0,4    | 0,1    |            |          |
| VLEP                  | FRA     |        |        | 1          |          |
| TLV                   | GRC     | 1      |        |            |          |
| AK                    | HUN     | 0,08   | 0,2    | 0,08       | 0,2      |
| GVI/KGVI              | HRV     | 0,41   | 0,1    | 0,8        | 0,2      |
| GVI/KGVI              | HRV     | 0,41   | 0,1    | 0,8        | 0,2      |
| RD                    | LTU     | 1,2    | 0,3    | 2,5        | 0,6      |
| NDS/NDSch             | POL     | 0,5    |        | 1          |          |
| TLV                   | ROU     | 1      | 0,25   | 3          | 0,75     |
| ПДК                   | RUS     |        |        | 1          |          |
| MV                    | SVN     | 0,41   | 0,1    | 0,41       | 0,1      |
| ESD                   | TUR     | 1      | 0,25   |            |          |
| WEL                   | GBR     | 1      |        | 3          |          |
| TLV-ACGIH             |         | 0,01   | 0,0025 |            |          |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

#### TOLUENE

TOLUENE: Adopted Biological Exposure Indices (BEIs) - ACGIH (2012): Determinant 1: Toluene in blood / Sampling Time: Prior to last shift of workweek / BEI@: 0,02 mg/L. / Notation: none - Determinant 2: Toluene in urine / Sampling Time: End of shift / BEI@: 0,03 mg/L. / Notation: none - Determinant 3: o-Cresol in urine / Sampling Time: End of shift / BEI@: 0,3 mg/g. creatinine / Notation: B = Background. ETILBENZENE

Adopted Biological Exposure Indices (BEIs) - ACGIH (2012): Determinant 1: Sum of mandelic acid and phenylglyoxylic acid in urine / Sampling Time: End of shift at end of workweek / BEI@: 0,7 g/g / Notation: Sq (Semi-quantitative) - Determinant 2: (Ethyl benzene in end-exhaled air) / Sampling Time: Not critical / BEI@: - / Notation: Sq = Semi-quantitative.

#### STYRENE

STIRENE: Adopted Biological Exposure Indices (BEIs) - ACGIH (2012): Determinant 1: Mandelic acid plus phenylglyoxylic acid in urine / Sampling Time: End of shift / BEI@: 400 mg/g. / Notation: Ns = Nonspecific - Determinant 2: Styrene in venous blood / Sampling Time: End of shift / BEI@: 0,2 mg/L. / Notation: Sq = Semi-quantitative - Determinant 3: Toluene in urine / Sampling Time: End of shift / BEI@: 0,03 mg/g. / Notation: none - Determinant 4: o-Cresol in urine / Sampling Time: End of shift / BEI@: 0,3 mg/g. creatinine / Notation: B = Background

## SECTION 8. Exposure controls/personal protection ... / >>

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type AX filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. Physical and chemical properties

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

| Properties                             | Value                     | Information                                                                                      |
|----------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------|
| Appearance                             | liquid                    |                                                                                                  |
| Colour                                 | yellowish                 |                                                                                                  |
| Odour                                  | solvent                   |                                                                                                  |
| Melting point / freezing point         | not available             |                                                                                                  |
| Initial boiling point                  | > 35 °C                   |                                                                                                  |
| Flammability                           | flammable liquid          |                                                                                                  |
| Lower explosive limit                  | not available             |                                                                                                  |
| Upper explosive limit                  | not available             |                                                                                                  |
| Flash point                            | < 23 °C                   |                                                                                                  |
| Auto-ignition temperature              | not available             |                                                                                                  |
| Decomposition temperature              | not available             |                                                                                                  |
| pH                                     | not available             | Reason for missing data: substance/mixture is non-polar/aprotic (eg: an organic solvent mixture) |
| Kinematic viscosity                    | > 20,5 mm <sup>2</sup> /s | Temperature: 20 °C                                                                               |
| Dynamic viscosity                      | 43"                       | Method: Ford Cup 4<br>Remark: 100 cc.<br>Temperature: 20 °C                                      |
| Solubility                             | insoluble in water        |                                                                                                  |
| Partition coefficient: n-octanol/water | not available             |                                                                                                  |
| Vapour pressure                        | not available             |                                                                                                  |
| Density and/or relative density        | 0,96 kg/l                 |                                                                                                  |
| Relative vapour density                | not available             |                                                                                                  |
| Particle characteristics               | not applicable            |                                                                                                  |

## SECTION 9. Physical and chemical properties ... / >>

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

|                              |                |   |                |
|------------------------------|----------------|---|----------------|
| Total solids (250°C / 482°F) | 52,74 %        |   |                |
| VOC (Directive 2010/75/EU)   | 46,86 %        | - | 449,81 g/litre |
| VOC (volatile carbon)        | 39,94 %        | - | 383,43 g/litre |
| Explosive properties         | not applicable |   |                |
| Oxidising properties         | not applicable |   |                |

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

#### TOLUENE

Avoid exposure to: light.

#### STYRENE

Polymerises at temperatures above 65°C/149°F. Fire hazard. Possibility of explosion.

Added with an inhibitor that requires a small amount of dissolved oxygen at temperatures < 25°C/77°F.

#### ISOBUTYL METHYL KETONE

Reacts violently with: light metals. Attacks various types of plastic materials.

#### ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

#### 2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

#### TOLUENE

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

#### STYRENE

May react dangerously with: peroxides, strong acids. May polymerise on contact with: aluminium trichloride, azobisisobutyronitrile, dibenzoyl peroxide, sodium. Risk of explosion on contact with: butyllithium, chlorosulphuric acid, di-tert-butyl peroxide, oxidising substances, oxygen.

#### ISOBUTYL METHYL KETONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

#### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### STYRENE

Avoid contact with: oxidising substances, copper, strong acids.

#### ISOBUTYL METHYL KETONE

Avoid exposure to: sources of heat.

#### ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

**SECTION 10. Stability and reactivity ... / >>****10.5. Incompatible materials****2-METHOXY-1-METHYLETHYL ACETATE**

Incompatible with: oxidising substances, strong acids, alkaline metals.

**STYRENE**

Incompatible materials: plastic materials.

**ISOBUTYL METHYL KETONE**

Incompatible with: oxidising substances, reducing substances.

**ETHYL ACETATE**

Incompatible with: acids, bases, strong oxidants, chlorosulphuric acid.

**10.6. Hazardous decomposition products**

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetics, mechanism of action and other information**2-METHOXY-1-METHYLETHYL ACETATE**

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure**2-METHOXY-1-METHYLETHYL ACETATE**

WORKERS: inhalation; contact with the skin.

**TOLUENE**

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

**STYRENE**

WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**2-METHOXY-1-METHYLETHYL ACETATE**

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

**TOLUENE**

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

**STYRENE**

The acute toxicity by inhalation at 1000 ppm affects the central nervous system with headache and dizziness, lack of coordination; irritation of the eye and respiratory tract mucous membranes occurs at 500 ppm. Chronic exposure causes depression of the central and peripheral nervous system with loss of memory, headache and drowsiness starting at 20 ppm; digestive disorders with nausea and loss of appetite; irritation of the respiratory tract with chronic bronchitis; dermatosis. Repeated exposure, at low doses of inhaled substance, causes irreversible changes to hearing and may cause changes in colour vision. No certain data is available on the reversibility of the visual impairment. Repeated skin exposure causes irritation. The substance degrades the skin, which can cause dryness and cracking.

Interactive effects**TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

### SECTION 11. Toxicological information ... / >>

#### STYRENE

The metabolism of the substance is inhibited by ethanol. When styrene is photo-oxidised with ozone and nitrogen dioxide, as in the formation of smog, products highly irritating for the human eye may ensue.

#### ACUTE TOXICITY

|                                            |                                           |
|--------------------------------------------|-------------------------------------------|
| ATE (Inhalation - vapours) of the mixture: | > 20 mg/l                                 |
| ATE (Oral) of the mixture:                 | Not classified (no significant component) |
| ATE (Dermal) of the mixture:               | Not classified (no significant component) |

#### AMORPHOUS SILICATE HYDRATE

|                                  |                   |
|----------------------------------|-------------------|
| LD50 (Dermal):                   | > 2000 mg/kg Rat  |
| LD50 (Oral):                     | > 2000 mg/kg Rat  |
| LC50 (Inhalation mists/powders): | > 2,2 mg/l/1h Rat |

#### 2-METHOXY-1-METHYLETHYL ACETATE

|                |                  |
|----------------|------------------|
| LD50 (Dermal): | > 5000 mg/kg Rat |
| LD50 (Oral):   | 8530 mg/kg Rat   |

#### TOLUENE

|                            |                    |
|----------------------------|--------------------|
| LD50 (Dermal):             | 12124 mg/kg Rabbit |
| LD50 (Oral):               | 5580 mg/kg Rat     |
| LC50 (Inhalation vapours): | 28,1 mg/l/4h Rat   |

#### STYRENE

|                            |                  |
|----------------------------|------------------|
| LD50 (Oral):               | 5000 mg/kg Rat   |
| LC50 (Inhalation vapours): | 11,8 mg/l/4h Rat |

#### ISOBUTYL METHYL KETONE

|                            |                      |
|----------------------------|----------------------|
| LD50 (Dermal):             | > 16000 mg/kg Rabbit |
| LD50 (Oral):               | 2080 mg/kg Rat       |
| LC50 (Inhalation vapours): | 11 mg/l/4h           |

#### MALEIC ANHYDRIDE

|                |               |
|----------------|---------------|
| LD50 (Dermal): | 610 mg/kg Rat |
| LD50 (Oral):   | 400 mg/kg Rat |

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

MALEIC ANHYDRIDE

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Suspected of causing cancer

#### TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### STYRENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2002).

Classified as "probable carcinogen" by the US National Toxicology Program (NTP) - (US DHHS, 2014).

### SECTION 11. Toxicological information ... / >>

#### REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

#### STOT - SINGLE EXPOSURE

May cause respiratory irritation

#### STOT - REPEATED EXPOSURE

Causes damage to organs

#### ASPIRATION HAZARD

Toxic for aspiration

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

### SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

#### 12.1. Toxicity

Information not available

#### 12.2. Persistence and degradability

##### AMORPHOUS SILICATE HYDRATE

Solubility in water 0,1 - 100 mg/l  
Degradability: information not available

##### 2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l  
Rapidly degradable

##### TOLUENE

Solubility in water 100 - 1000 mg/l  
Rapidly degradable

##### STYRENE

Solubility in water 320 mg/l  
Rapidly degradable

##### ISOBUTYL METHYL KETONE

Solubility in water > 10000 mg/l  
Rapidly degradable

##### ETHYL ACETATE

Solubility in water > 10000 mg/l  
Rapidly degradable

##### MALEIC ANHYDRIDE

Solubility in water > 10000 mg/l  
Entirely degradable

#### 12.3. Bioaccumulative potential

##### AMORPHOUS SILICATE HYDRATE

Partition coefficient: n-octanol/water 0,53

## SECTION 12. Ecological information ... / >>

|                                        |       |
|----------------------------------------|-------|
| 2-METHOXY-1-METHYLETHYL ACETATE        |       |
| Partition coefficient: n-octanol/water | 1,2   |
| TOLUENE                                |       |
| Partition coefficient: n-octanol/water | 2,73  |
| BCF                                    | 90    |
| STYRENE                                |       |
| Partition coefficient: n-octanol/water | 2,96  |
| BCF                                    | 74    |
| ISOBUTYL METHYL KETONE                 |       |
| Partition coefficient: n-octanol/water | 1,9   |
| ETHYL ACETATE                          |       |
| Partition coefficient: n-octanol/water | 0,68  |
| BCF                                    | 30    |
| MALEIC ANHYDRIDE                       |       |
| Partition coefficient: n-octanol/water | -2,78 |

### 12.4. Mobility in soil

|                                   |       |
|-----------------------------------|-------|
| STYRENE                           |       |
| Partition coefficient: soil/water | 2,55  |
| ISOBUTYL METHYL KETONE            |       |
| Partition coefficient: soil/water | 2,008 |

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

### 12.7. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.  
 Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  
 Waste transportation may be subject to ADR restrictions.  
 The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.  
**CONTAMINATED PACKAGING**  
 Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information

### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1263

### 14.2. UN proper shipping name

ADR / RID: PAINT  
 IMDG: PAINT  
 IATA: PAINT

## SECTION 14. Transport information ... / >>

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: II

### 14.5. Environmental hazards

ADR / RID: NO  
IMDG: not marine pollutant  
IATA: NO

### 14.6. Special precautions for user

|            |                                                            |                                                                  |                                                            |
|------------|------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------|
| ADR / RID: | HIN - Kemler: 33<br>Special provision: 163, 367, 640C, 650 | Limited Quantities: 5 lt                                         | Tunnel restriction code: (D/E)                             |
| IMDG:      | EMS: F-E, <u>S-E</u>                                       | Limited Quantities: 5 lt                                         |                                                            |
| IATA:      | Cargo:<br>Passengers:<br>Special provision:                | Maximum quantity: 60 L<br>Maximum quantity: 5 L<br>A3, A72, A192 | Packaging instructions: 364<br>Packaging instructions: 353 |

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

Information not relevant

## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

| Product             |        |                                                             |
|---------------------|--------|-------------------------------------------------------------|
| Point               | 3 - 40 |                                                             |
| Contained substance |        |                                                             |
| Point               | 75     | STYRENE<br>REACH Reg.: 01-2119457861-32-xxxx                |
| Point               | 75     | ISOBUTYL METHYL KETONE<br>REACH Reg.: 01-2119473980-30-xxxx |
| Point               | 75     | ETHYL ACETATE<br>REACH Reg.: 01-2119475103-46-xxxx          |
| Point               | 75     | MALEIC ANHYDRIDE<br>REACH Reg.: 01-2119463268-32-xxxx       |
| Point               | 48-75  | TOLUENE<br>REACH Reg.: 01-2119471310-51-xxxx                |

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

### SECTION 15. Regulatory information ... / >>

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                          |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| <b>Flam. Liq. 2</b>      | Flammable liquid, category 2                                               |
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                               |
| <b>Carc. 2</b>           | Carcinogenicity, category 2                                                |
| <b>Repr. 2</b>           | Reproductive toxicity, category 2                                          |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4                                                 |
| <b>STOT RE 1</b>         | Specific target organ toxicity - repeated exposure, category 1             |
| <b>Asp. Tox. 1</b>       | Aspiration hazard, category 1                                              |
| <b>STOT RE 2</b>         | Specific target organ toxicity - repeated exposure, category 2             |
| <b>Skin Corr. 1B</b>     | Skin corrosion, category 1B                                                |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2                                                 |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2                                                |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3               |
| <b>Resp. Sens. 1</b>     | Respiratory sensitization, category 1                                      |
| <b>Skin Sens. 1A</b>     | Skin sensitization, category 1A                                            |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3         |
| <b>H225</b>              | Highly flammable liquid and vapour.                                        |
| <b>H226</b>              | Flammable liquid and vapour.                                               |
| <b>H351</b>              | Suspected of causing cancer.                                               |
| <b>H361d</b>             | Suspected of damaging the unborn child.                                    |
| <b>H302</b>              | Harmful if swallowed.                                                      |
| <b>H332</b>              | Harmful if inhaled.                                                        |
| <b>H372</b>              | Causes damage to organs through prolonged or repeated exposure.            |
| <b>H304</b>              | May be fatal if swallowed and enters airways.                              |
| <b>H373</b>              | May cause damage to organs through prolonged or repeated exposure.         |
| <b>H314</b>              | Causes severe skin burns and eye damage.                                   |
| <b>H319</b>              | Causes serious eye irritation.                                             |
| <b>H315</b>              | Causes skin irritation.                                                    |
| <b>H335</b>              | May cause respiratory irritation.                                          |
| <b>H334</b>              | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <b>H317</b>              | May cause an allergic skin reaction.                                       |
| <b>H336</b>              | May cause drowsiness or dizziness.                                         |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                         |
| <b>EUH066</b>            | Repeated exposure may cause skin dryness or cracking.                      |
| <b>EUH071</b>            | Corrosive to the respiratory tract.                                        |

Use descriptor system:

|             |     |                                                               |
|-------------|-----|---------------------------------------------------------------|
| <b>AC</b>   | 11a | Wood articles: Large surface area articles                    |
| <b>AC</b>   | 11e | Wood articles: Furniture & furnishings                        |
| <b>AC</b>   | 11g | Other wood articles                                           |
| <b>ERC</b>  | 5   | Use at industrial site leading to inclusion into/onto article |
| <b>LCS</b>  | IS  | Use at industrial sites                                       |
| <b>PC</b>   | 9a  | Coatings and paints, thinners, paint removers                 |
| <b>PROC</b> | 11  | Non industrial spraying                                       |
| <b>PROC</b> | 7   | Industrial spraying                                           |
| <b>SU</b>   | 18  | Manufacture of furniture                                      |
| <b>SU</b>   | 6a  | Manufacture of wood and wood products                         |

LEGEND:

**SECTION 16. Other information ... / >>**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
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  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
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  26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website

**SECTION 16. Other information** ... / >>

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

**Changes to previous review:**

The following sections were modified:

09.