

Revision nr. 1

Dated 20/01/2023 First compilation Printed on 20/01/2023

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Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

C4141 Code: **FENIX - 4141** Product name

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

Intended use Putty for metal, Professional use only.

#### Uses related to substances

| Identified Uses | Industrial                   | Professional                  | Consumer |
|-----------------|------------------------------|-------------------------------|----------|
| Styrene         | PROC: 1, 10, 12, 13, 14, 15, | PROC: 1, 10, 11, 3, 4, 5, 8a. | -        |
|                 | 3, 4, 5, 7, 8a, 8b, 9.       |                               |          |

Uses Advised Against

SU21: Consumer use

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

ILPA ADESIVI SRL Name Full address Via Ferorelli, 4 District and Country 70132 BARI (BARI) ITALIA

Tel. + 39 0805383837 Fax + 39 0805377807

e-mail address of the competent person

responsible for the Safety Data Sheet laboratorio@ilpa.it

### 1.4. Emergency telephone number

+ 39 0808974667 (Technical support - 8,00 - 17,00 - LUN-GIO; MON-THU; 8:00 - 13:00 VEN; FRI)(Italian Time zone) For urgent inquiries refer to

Safety Executive (HSE) Chemicals Regulation Directorate 5S.1 Redgrave Court, Merton

Road, Bootle, Merseyside. L20 7HS.

Phone: +44 151 9513317

### **SECTION 2. Hazards identification**

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



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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 3 H226 Flammable liquid and vapour.

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.

Eye irritation, category 2 H319 Causes serious eye irritation.

Skin irritation, category 2 H315 Causes skin irritation.

Skin sensitization, category 1A H317 May cause an allergic skin reaction.

#### 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:

**H226** Flammable liquid and vapour.

**H361d** Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

**H317** May cause an allergic skin reaction.

#### Precautionary statements:

**P201** Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**P260** Do not breathe dust / fume / gas / mist / vapours / spray.

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

P308+P313 IF exposed or concerned: Get medical advice / attention.

P370+P378 In case of fire: useuse carbon dioxide, foam, chemical powder to extinguish.

Contains: STYRENE

MALEIC ANHYDRIDE

2,2 '- [(4-methylphenyl) imino] bisethanol

### VOC (Directive 2004/42/EC) :

Bodyfiller / stopper.

VOC given in g/litre of product in a ready-to-use condition : 45,00



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Limit value: 250,00

#### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

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

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

STYRENE

CAS 100-42-5 13,5 ≤ x < 15 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

EC 202-851-5 LC50 Inhalation vapours: 11,8 mg/l/4h

INDEX 601-026-00-0

REACH Reg. 01-2119457861-32

ETHYL ACETATE

CAS 141-78-6  $2 \le x < 2,5$  Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4

INDEX 607-022-00-5

REACH Reg. 01-2119475103-46

2,2 '- [(4-methylphenyl) imino]

bisethanol

CAS 3077-12-1 0,25 ≤ x < 0,3 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3

H412

EC 221-359-1 LD50 Oral: 959 mg/kg

INDEX -

REACH Reg. 01-2120791684-40

**MALEIC ANHYDRIDE** 

CAS 108-31-6 0,001  $\leq$  x < 0,05 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

Skin Sens. 1A H317: ≥ 0,001%

INDEX 607-096-00-9 LD50 Oral: 400

REACH Reg. 01-2119472428-31-

XXXX

DIPROPYLENE GLYCOL MONOMETHYL ETHER

CAS 34590-94-8  $0 \le x < 0.05$  Substance with a community workplace exposure limit.

EC 252-104-2

EC 203-571-6

INDEX -

REACH Reg. 01-2119450011-60-

XXXX



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**METHANOL** 

EC 200-659-6

CAS 67-56-1  $0 \le x < 0.05$ 

Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3

H331, STOT SE 1 H370

STOT SE 2 H371: ≥ 3%

INDEX 603-001-00-X STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation vapours: 3

mg/l

REACH Reg. 01-2119433307-44

**CYCLOHEXANE** 

CAS 110-82-7  $0 \le x < 0.05$ 

Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 203-806-2

INDEX 601-017-00-1

REACH Reg. 01-2119463273-41

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

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

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

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

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

Information not available

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

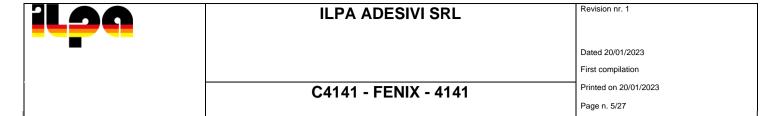
#### SUITABLE EXTINGUISHING EQUIPMENT

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



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materials, see section 10 for details.

### 7.3. Specific end use(s)

No use other than specified in Section 1.2 of this safety data sheet.

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

### 8.1. Control parameters

### Regulatory References:

STYDENE

| DEU  | Deutschland    | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher   |
|------|----------------|--|
|      |                | Arbeitsstoffe, Mitteilung 56   |
| ESP  | España         | Límites de exposición profesional para agentes químicos en España 2021   |
| FRA  | France         | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS   |
| 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 |
|      |                | ην προστασία των εργαζομένων από τους κινούνους που συνσέονται με την εκσέοη σε καρκινόγονους τη<br>μεταλλαξιγόνους παράγοντες κατά την εργασία``»   |
| HRV  | Hrvatska       | Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu,  |
| 17.4 | 14-11-         | graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)  |
| ITA  | Italia         | Decreto Legislativo 9 Aprile 2008, n.81  |
| NLD  | Nederland      | Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit  |
| 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   |
| ROU  | România        | Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006  |
| GBR  | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020)  |
| EU   | OEL EU         | 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 2021

| Туре                     | Country          | TWA/8h | TWA/8h |       |      | Remarks /<br>Observations |  |
|--------------------------|------------------|--------|--------|-------|------|---------------------------|--|
|                          |                  | mg/m3  | ppm    | mg/m3 | ppm  |                           |  |
| MAK                      | DEU              | 86     | 20     | 172   | 40   |                           |  |
| VLA                      | ESP              | 86     | 20     | 172   | 40   |                           |  |
| VLEP                     | FRA              | 100    | 23,3   | 200   | 46,6 |                           |  |
| TLV                      | GRC              | 425    | 100    | 1050  | 250  |                           |  |
| GVI/KGVI                 | HRV              | 430    | 100    | 1080  | 250  | SKIN                      |  |
| TGG                      | NLD              | 107    |        |       |      |                           |  |
| TLV                      | ROU              | 50     | 12     | 150   | 35   |                           |  |
| WEL                      | GBR              | 430    | 100    | 1080  | 250  |                           |  |
| TLV-ACGIH                |                  | 10     |        | 20    |      |                           |  |
| Predicted no-effect cond | entration - PNEC |        |        |       |      |                           |  |
| Normal value in fresh wa | ater             |        |        | 0,028 |      | mg/l                      |  |
| Normal value in marine   | water            |        |        | 0,014 |      | mg/l                      |  |



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| Normal value for fresh water sediment        | 0,614  | mg/kg/d |  |
|--|--------|---------|--|
| Normal value for marine water sediment       | 0,0614 | mg/kg/d |  |
| Normal value for water, intermittent release | 0,04   | mg/l    |  |
| Normal value of STP microorganisms           | 5      | mg/l    |  |
| Normal value for the terrestrial compartment | 0,2    | mg/kg/d |  |

| Health - Derived no-ef | fect level - DNEL / D | MEL            |               |            |             |           |               |           |
|------------------------|-----------------------|----------------|---------------|------------|-------------|-----------|---------------|-----------|
|                        | Effects on            |                |               |            | Effects on  |           |               |           |
|                        | consumers             |                |               |            | workers     |           |               |           |
| Route of exposure      | Acute local           | Acute systemic | Chronic local | Chronic    | Acute local | Acute     | Chronic local | Chronic   |
|                        |                       |                |               | systemic   |             | systemic  |               | systemic  |
| Oral                   |                       |                | VND           | 2,1 mg/kg  |             |           |               |           |
|                        |                       |                |               | bw/d       |             |           |               |           |
| Inhalation             | 182,75 mg/m3          | 174,25 mg/m3   | VND           | 10,2 mg/m3 | 306 mg/m3   | 289 mg/m3 | VND           | 85 mg/m3  |
| Skin                   |                       |                | VND           | 343 mg/kg  |             |           | VND           | 406 mg/kg |
|                        |                       |                |               | bw/d       |             |           |               | bw/d      |

| Туре                               | Country                   | TWA/8h |     | STEL/15min |      | Remarks /<br>Observations |  |
|------------------------------------|---------------------------|--------|-----|------------|------|---------------------------|--|
|                                    |                           | mg/m3  | ppm | mg/m3      | ppm  |                           |  |
| AGW                                | DEU                       | 730    | 200 | 1460       | 400  |                           |  |
| MAK                                | DEU                       | 750    | 200 | 1500       | 400  |                           |  |
| VLA                                | ESP                       | 734    | 200 | 1468       | 400  |                           |  |
| VLEP                               | FRA                       | 734    | 200 | 1468       | 400  |                           |  |
| TLV                                | GRC                       | 734    | 200 | 1468       | 400  |                           |  |
| GVI/KGVI                           | HRV                       | 734    | 200 | 1468       | 400  |                           |  |
| VLEP                               | ITA                       | 734    | 200 | 1468       | 400  |                           |  |
| TGG                                | NLD                       | 734    |     | 1468       |      |                           |  |
| VLE                                | PRT                       | 734    | 200 | 1468       | 400  |                           |  |
| TLV                                | ROU                       | 734    | 200 | 1468       | 400  |                           |  |
| WEL                                | GBR                       | 734    | 200 | 1468       | 400  |                           |  |
| OEL                                | EU                        | 734    | 200 | 1468       | 400  |                           |  |
| TLV-ACGIH                          |                           | 1441   | 400 |            |      |                           |  |
| Predicted no-effect cond           | centration - PNEC         |        |     |            |      |                           |  |
| Normal value in fresh wa           | ater                      |        |     | 0,24       |      | mg/l                      |  |
| Normal value in marine             | water                     |        |     | 0,024      |      | mg/l                      |  |
| Normal value for fresh w           | vater sediment            |        |     | 1,15       |      | mg/kg/d                   |  |
| Normal value for marine            | water sediment            |        |     | 0,115      |      | mg/kg/d                   |  |
| Normal value for water,            | intermittent release      |        |     | 1,65       |      | mg/l                      |  |
| Normal value of STP microorganisms |                           |        | 650 |            | mg/l |                           |  |
| Normal value for the foo           | od chain (secondary poiso | oning) |     | 200        |      | mg/kg                     |  |
| Normal value for the ten           | restrial compartment      |        |     | 0,148      |      | mg/kg/d                   |  |
| Normal value for the atm           | nosphere                  |        |     | NPI        |      |                           |  |

| Health - Derived no-effect | t level - DNEL / D | WEL            |               |          |             |          |               |          |  |
|----------------------------|--------------------|----------------|---------------|----------|-------------|----------|---------------|----------|--|
|                            | Effects on         |                |               |          | Effects on  |          |               |          |  |
|                            | consumers          |                |               |          | workers     |          |               |          |  |
| Route of exposure          | Acute local        | Acute systemic | Chronic local | Chronic  | Acute local | Acute    | Chronic local | Chronic  |  |
|                            |                    |                |               | systemic |             | systemic |               | systemic |  |



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| Oral       |           |           | VND       | 4,5 mg/kg<br>bw/d |            |            |           |           |
|------------|-----------|-----------|-----------|-------------------|------------|------------|-----------|-----------|
| Inhalation | 734 mg/m3 | 734 mg/m3 | 367 mg/m3 | 367 mg/m3         | 1468 mg/m3 | 1468 mg/m3 | 734 mg/m3 | 734 mg/m3 |
| Skin       |           |           | VND       | 37 mg/kg          |            |            | VND       | 63 mg/kg  |
|            |           |           |           | bw/d              |            |            |           | bw/d      |

| 2,2 '- [(4-methylphenyl) imino] bisethanol   |       |         |  |
|--|-------|---------|--|
| Predicted no-effect concentration - PNEC     |       |         |  |
| Normal value in fresh water                  | 0,026 | mg/l    |  |
| Normal value in marine water                 | 0,003 | mg/l    |  |
| Normal value for fresh water sediment        | 0,121 | mg/kg   |  |
| Normal value for marine water sediment       | 0,012 | mg/kg   |  |
| Normal value of STP microorganisms           | 10    | mg/l    |  |
| Normal value for the terrestrial compartment | 0,009 | mg/kg/d |  |

| Health - Derived no-ef | fect level - DNEL / [ | OMEL           |               |                    |                       |                |               |                  |
|------------------------|-----------------------|----------------|---------------|--------------------|-----------------------|----------------|---------------|------------------|
|                        | Effects on consumers  |                |               |                    | Effects on<br>workers |                |               |                  |
| Route of exposure      | Acute local           | Acute systemic | Chronic local | Chronic systemic   | Acute local           | Acute systemic | Chronic local | Chronic systemic |
| Oral                   |                       | VND            |               | 0.16 mg/kg<br>bw/d |                       |                |               |                  |
| Inhalation             | NPI                   | NPI            | NPI           | 0.58 mg/m3         | NPI                   | NPI            | NPI           | 3.29 mg/m3       |
| Skin                   | VND                   | NPI            | VND           | 0.17 mg/kg         | VND                   | NPI            | VND           | 0.47 mg/kg       |

| Oral                  |         | VND    |      | 0.16 mg/kg<br>bw/d |          |               |                  |                    |
|-----------------------|---------|--------|------|--------------------|----------|---------------|------------------|--------------------|
| Inhalation            | NPI     | NPI    | NPI  | 0.58 mg/m3         | NPI      | NPI           | NPI              | 3.29 mg/m3         |
| Skin                  | VND     | NPI    | VND  | 0.17 mg/kg<br>bw/d | VND      | NPI           | VND              | 0.47 mg/kg<br>bw/d |
| MALEIC ANHYDRIDE      |         |        |      |                    |          |               |                  |                    |
| Threshold Limit Value |         |        |      |                    |          |               |                  |                    |
| Туре                  | Country | TWA/8h |      | STEL/15min         |          | Rema<br>Obser | rks /<br>vations |                    |
|                       |         | mg/m3  | ppm  | mg/m3              | ppm      |               |                  |                    |
| AGW                   | DEU     | 0.081  | 0.02 | 0.081 (C)          | 0.02 (C) |               |                  |                    |

|  |                         |         |        |           |          | Observation | IS             |
|--|-------------------------|---------|--------|-----------|----------|-------------|----------------|
|  |                         | mg/m3   | ppm    | mg/m3     | ppm      |             |                |
| AGW  | DEU                     | 0,081   | 0,02   | 0,081 (C) | 0,02 (C) |             |                |
| MAK  | DEU                     | 0,081   | 0,02   | 0,081 (C) | 0,02 (C) |             | C = 0,20 mg/m3 |
| VLA  | ESP                     | 0,4     | 0,1    |           |          |             |                |
| VLEP   | FRA                     |         |        | 1         |          |             |                |
| TLV  | GRC                     | 1       |        |           |          |             |                |
| GVI/KGVI                                     | HRV                     | 0,41    | 0,1    | 0,8       | 0,2      | INHAL       |                |
| GVI/KGVI                                     | HRV                     | 0,41    | 0,1    | 0,8       | 0,2      | SKIN        |                |
| TLV  | ROU                     | 1       | 0,25   | 3         | 0,75     |             |                |
| WEL  | GBR                     | 1       |        | 3         |          |             |                |
| TLV-ACGIH                                    |                         | 0,01    | 0,0025 |           |          | INHAL       |                |
| Predicted no-effect conce                    | entration - PNEC        |         |        |           |          |             |                |
| Normal value in fresh wa                     | ter                     |         |        | 0,075     | m        | g/l         |                |
| Normal value in marine v                     | vater                   |         |        | 0,0075    | m        | g/l         |                |
| Normal value for fresh wa                    | ater sediment           |         |        | 0,06      | m        | g/kg        |                |
| Normal value for marine                      | water sediment          |         |        | 0,006     | m        | g/kg        |                |
| Normal value for water, in                   | ntermittent release     |         |        | 48,1      | m        | g/l         |                |
| Normal value of STP mic                      | roorganisms             |         |        | 4,46      | m        | g/l         |                |
| Normal value for the food                    | d chain (secondary pois | soning) |        | 6,67      | m        | g/kg        |                |
| Normal value for the terrestrial compartment |                         |         | 0,01   | m         | g/kg     |             |                |

### Health - Derived no-effect level - DNEL / DMEL



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|-----|----|-----|----|-----|-----|------|
|-----|----|-----|----|-----|-----|------|

|                               | Effects on consumers                            |                |               |                        | Effects on<br>workers |                      |               |                   |
|-------------------------------|---|----------------|---------------|------------------------|-----------------------|----------------------|---------------|-------------------|
| Route of exposure             | Acute local                                     | Acute systemic | Chronic local | Chronic systemic       | Acute local           | Acute systemic       | Chronic local | Chronic systemic  |
| Oral                          |   | 0,1 mg/kg bw/d |               | 0,06 mg/kg<br>bw/d     |                       | Systemic             |               | Systemic          |
| Inhalation                    |   |                | 0,08 mg/m3    | 0,05 mg/m3             | 0,8 mg/m3             | 0,8 mg/m3            | 0,32 mg/m3    | 0,19 mg/m3        |
| Skin                          |   | 0,1 mg/kg bw/d |               | 0,1 mg/kg<br>bw/d      |                       | 0,2 mg/kg<br>bw/d    |               | 0,2 mg/kg<br>bw/d |
| DIPROPYLENE GLYCO             | L MONOMETHYL                                    | ETHER          |               |                        |                       |                      |               |                   |
| Type                          | Country   | TWA/8h         |               | STEL/15min             |                       | Remarks<br>Observati |               |                   |
|                               |   | mg/m3          | ppm           | mg/m3                  | ppm                   | Observati            | 0115          |                   |
| AGW                           | DEU   | 310            | 50            | 310                    | 50                    |                      |               |                   |
| MAK                           | DEU   | 310            | 50            | 310                    | 50                    |                      |               |                   |
| VLA                           | ESP   | 308            | 50            |                        |                       | SKIN                 |               |                   |
| VLEP                          | FRA   | 308            | 50            |                        |                       | SKIN                 |               |                   |
| TLV                           | GRC   | 600            | 100           | 900                    | 150                   |                      |               |                   |
| GVI/KGVI                      | HRV   | 308            | 50            |                        |                       | SKIN                 |               |                   |
| VLEP                          | ITA   | 308            | 50            |                        |                       | SKIN                 |               |                   |
| TGG                           | NLD   | 300            |               |                        |                       |                      |               |                   |
| VLE                           | PRT   | 308            | 50            |                        |                       | SKIN                 |               |                   |
| TLV                           | ROU   | 308            | 50            |                        |                       | SKIN                 |               |                   |
| WEL                           | GBR   | 308            | 50            |                        |                       | SKIN                 |               |                   |
| OEL                           | EU  | 308            | 50            |                        |                       | SKIN                 |               |                   |
| Predicted no-effect concentr  | ration - PNEC                                   |                |               |                        |                       |                      |               |                   |
| Normal value in fresh water   |   |                |               | 19                     | mg                    | g/l                  |               |                   |
| Normal value in marine wate   | er  |                |               | 1,9                    | mg                    | g/l                  |               |                   |
| Normal value for fresh water  | r sediment                                      |                |               | 70,2                   | mç                    | g/kg                 |               |                   |
| Normal value for marine wat   | ter sediment                                    |                |               | 7,02                   | mç                    | g/kg                 |               |                   |
| Normal value for water, inte  | rmittent release                                |                |               | 190                    | mç                    | g/l                  |               |                   |
| Normal value of STP microc    | organisms                                       |                |               | 4168                   | mg                    | g/l                  |               |                   |
| Normal value for the terrestr | ial compartment                                 |                |               | 2,74                   | mg                    | g/kg                 |               |                   |
| Health - Derived no-eff       | ect level - DNEL / [<br>Effects on<br>consumers | DMEL           |               |                        | Effects on workers    |                      |               |                   |
| Route of exposure             | Acute local                                     | Acute systemic | Chronic local | Chronic                | Acute local           | Acute                | Chronic local | Chronic           |
| Oral                          |   |                |               | systemic<br>1,67 mg/kg |                       | systemic             |               | systemic          |
| Inhalation                    |   |                |               | bw/d<br>37,2 mg/m3     |                       |                      |               | 310 mg/m3         |
| Skin                          |   |                |               | 15 mg/kg<br>bw/d       |                       |                      |               | 65 mg/kg<br>bw/d  |
| METHANOL                      |   |                |               |                        |                       |                      |               |                   |
| Threshold Limit Value Type    | Country   | TWA/8h         |               | STEL/15min             |                       | Remarks              |               |                   |
|                               |   | mg/m3          | ppm           | mg/m3                  | ppm                   | Observati            | ons           |                   |



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| AGW  | DEU                  | 270    | 200 | 1080 | 800        | SKIN    |    |  |
|--|----------------------|--------|-----|------|------------|---------|----|--|
| MAK  | DEU                  | 130    | 100 | 260  | 200        | SKIN    |    |  |
| VLA  | ESP                  | 266    | 200 |      |            | SKIN    |    |  |
| VLEP   | FRA                  | 260    | 200 | 1300 | 1000       | SKIN    | 11 |  |
| TLV  | GRC                  | 260    | 200 | 325  | 250        |         |    |  |
| GVI/KGVI                                     | HRV                  | 260    | 200 |      |            | SKIN    |    |  |
| VLEP   | ITA                  | 260    | 200 |      |            | SKIN    |    |  |
| TGG  | NLD                  | 133    |     |      |            | SKIN    |    |  |
| VLE  | PRT                  | 260    | 200 |      |            | SKIN    |    |  |
| TLV  | ROU                  | 260    | 200 |      |            | SKIN    |    |  |
| WEL  | GBR                  | 266    | 200 | 333  | 250        | SKIN    |    |  |
| OEL  | EU                   | 260    | 200 |      |            |         |    |  |
| TLV-ACGIH                                    |                      | 262    | 200 | 328  | 250        | SKIN    |    |  |
| Predicted no-effect cond                     | centration - PNEC    |        |     |      |            |         |    |  |
| Normal value in fresh wa                     | ater                 |        |     | 20,8 | m          | g/l     |    |  |
| Normal value in marine                       | water                |        |     | 20,8 | m          | mg/l    |    |  |
| Normal value for fresh water sediment        |                      |        |     | 77   | m          | mg/kg/d |    |  |
| Normal value for marine water sediment       |                      |        |     | 7,7  | m          | mg/kg/d |    |  |
| Normal value for water, intermittent release |                      |        |     | 1540 | m          | mg/l    |    |  |
| Normal value of STP microorganisms           |                      |        |     | 100  | m          | g/l     |    |  |
| Normal value for the terrestrial compartment |                      |        |     | 100  | m          | g/kg/d  |    |  |
| Health - Derived no-                         | -effect level - DNEL | / DMEL |     |      | Effects on |         |    |  |

| Health - Derived no-effect | evel - DNEL / D<br>Effects on<br>consumers | MEL            |               |                     | Effects on workers |                   |               |                  |
|----------------------------|--|----------------|---------------|---------------------|--------------------|-------------------|---------------|------------------|
| Route of exposure          | Acute local                                | Acute systemic | Chronic local | Chronic<br>systemic | Acute local        | Acute<br>systemic | Chronic local | Chronic systemic |
| Oral                       | VND  | 8 mg/kg bw/d   | VND           | 8 mg/kg bw/d        |                    |                   |               |                  |
| Inhalation                 | 50 mg/m3                                   | 50 mg/m3       | 50 mg/m3      | 50 mg/m3            | 260 mg/m3          | 260 mg/m3         | 260 mg/m3     | 260 mg/m3        |
| Skin                       | VND  | 8 mg/kg bw/d   | VND           | 8 mg/kg bw/d        | VND                | 40 mg/kg<br>bw/d  | VND           | 40 mg/kg<br>bw/d |

| Туре     | Country | TWA/8h |     | STEL/15min |     | Remarks /<br>Observations |  |
|----------|---------|--------|-----|------------|-----|---------------------------|--|
|          |         | mg/m3  | ppm | mg/m3      | ppm |                           |  |
| AGW      | DEU     | 700    | 200 | 2800       | 800 |                           |  |
| MAK      | DEU     | 700    | 200 | 2800       | 800 |                           |  |
| VLA      | ESP     | 700    | 200 |            |     |                           |  |
| VLEP     | FRA     | 700    | 200 | 1300       | 375 | 11                        |  |
| TLV      | GRC     | 700    | 200 |            |     |                           |  |
| GVI/KGVI | HRV     | 700    | 200 |            |     | SKIN                      |  |
| VLEP     | ITA     | 350    | 100 |            |     |                           |  |
| TGG      | NLD     | 700    |     | 1400       |     |                           |  |
| VLE      | PRT     | 700    | 200 |            |     |                           |  |
| TLV      | ROU     | 700    | 200 |            |     |                           |  |



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1050

3,24

2,99

mg/l

mg/kg/d

100

| VVEL                    | GBR                    | 350 | 100 | 1050  | 300     |   |
|-------------------------|------------------------|-----|-----|-------|---------|---|
| OEL                     | EU                     | 700 | 200 |       |         |   |
| TLV-ACGIH               |                        | 344 | 100 |       |         |   |
| Predicted no-effect cor | ncentration - PNEC     |     |     |       |         |   |
| Normal value in fresh v | vater                  |     |     | 0,207 | mg/l    |   |
| Normal value in marine  | e water                |     |     | 0,207 | mg/l    |   |
| Normal value for fresh  | water sediment         |     |     | 3,627 | mg/kg/d |   |
| Normal value for marin  | e water sediment       |     |     | 3,627 | mg/kg/d |   |
| Normal value for water  | , intermittent release |     |     | 0,207 | mg/l    | - |

| Health - Derived no-effe | ect level - DNEL / D | MEL            |               |            |             |           |               |            |
|--------------------------|----------------------|----------------|---------------|------------|-------------|-----------|---------------|------------|
|                          | Effects on           |                |               |            | Effects on  |           |               |            |
|                          | consumers            |                |               |            | workers     |           |               |            |
| Route of exposure        | Acute local          | Acute systemic | Chronic local | Chronic    | Acute local | Acute     | Chronic local | Chronic    |
|                          |                      |                |               | systemic   |             | systemic  |               | systemic   |
| Oral                     |                      |                | VND           | 59,4 mg/kg |             |           |               |            |
|                          |                      |                |               | bw/d       |             |           |               |            |
| Inhalation               | 412 mg/m3            | 412 mg/m3      | 206 mg/m3     | 206 mg/m3  | 700 mg/m3   | 700 mg/m3 | 700 mg/m3     | 700 mg/m3  |
| Skin                     | VND                  | VND            | VND           | 1186 mg/kg | VND         | VND       | VND           | 2016 mg/kg |
|                          |                      |                |               | bw/d       |             |           |               | bw/d       |

#### Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

Normal value of STP microorganisms

Normal value for the terrestrial compartment

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.

CDD

250

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 (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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.

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Wear airtight protective goggles (see standard EN 166).

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

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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. The protection provided by masks is in any case limited.

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.

### **SECTION 9. Physical and chemical properties**

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

| Properties  | Value  | Information   |
|---|--|---|
| Appearance  | paste  |   |
| Colour  | yellow                                       |   |
| Odour   | characteristic of solvent                    | Remark:(STYRENE: Journal of Applied Toxicology, 3(6):272-290. 1983.)<br>Concentration: 0,32 ppm % |
|   |  | Substance:STYRENE   |
| Melting point / freezing point                                | Not available                                | Substance:STYRENE<br>Temperature: -30,7 °C  |
| Initial boiling point   | 145 °C                                       | Substance:STYRENE<br>Temperature: 145 °C  |
| Boiling range   | Not applicable                               |   |
| Flammability  | flammable liquid                             |   |
| Lower explosive limit<br>Upper explosive limit<br>Flash point | 1,2 % (v/v)<br>8,9 % (v/v)<br>23 ≤ T ≤ 60 °C | Substance:STYRENE<br>Substance:STYRENE  |
| Auto-ignition temperature                                     | 490 °C                                       | Substance:STYRENE<br>Temperature: 490 °C  |
| Decomposition temperature                                     | Not applicable                               |   |
| рН  | Not applicable                               | Reason for missing data:solvent based product, insoluble in water.                                |
| Kinematic viscosity   | 970000 mm2/s                                 | Remark:Kinematic viscosity>20,5 mm2/s, (at 40°C) Temperature: 25 °C                               |
| Dynamic viscosity<br>Solubility                               | 1750 ± 100 Pas<br>insoluble in water         | Temperature: 25 °C  |
| Partition coefficient: n-octanol/water                        | 2,96 logkow                                  | Concentration: Log Pow 2,96 % Substance:STYRENE   |
| Vapour pressure   | 6,67 hPa                                     | Substance:STYRENE<br>Temperature: 20 °C   |



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Density and/or relative density 1,7 g/cm3

Relative vapour density 3,6 (air=1)
Particle characteristics Not applicable

Substance:STYRENE

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Evaporation rate Not available Concentration: 0,49 (butyl acetate=1) %

Substance:STYRENE

VOC (Directive 2004/42/EC) : 17,30 % - 294,04 g/litre VOC (volatile carbon) 14,97 % - 254,41 g/litre

Explosive properties Product is not explosive.

(STYRENE)

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.

#### 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.

### ETHYL ACETATE

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

### DIPROPYLENE GLYCOL MONOMETHYL ETHER

Forms peroxides with: air.

### 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.

### STYRENE



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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,diterbutyl peroxide,oxidising substances,oxygen.

#### 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.

#### DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react violently with: strong oxidising agents.

#### CYCLOHEXANE

May react violently with: strong oxidants, liquid nitric oxide. 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.

### ETHYL ACETATE

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

#### DIPROPYLENE GLYCOL MONOMETHYL ETHER

Avoid exposure to: sources of heat. Possibility of explosion.

### 10.5. Incompatible materials

### STYRENE

Incompatible materials: plastic materials.

#### ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

#### CYCLOHEXANE

Incompatible materials: natural rubbers, neoprene, polyvinyl chloride, polyethylene.

### 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.



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### **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

Information not available

Information on likely routes of exposure

#### STYRENE

WORKERS: inhalation; contact with the skin.

#### METHANOL

WORKERS: inhalation; contact with the skin.

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

### CYCLOHEXANE

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.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### 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 degreases the skin, which can cause dryness and cracking.

### METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

#### CYCLOHEXANE

Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the



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cyclohexanone, its metabolite.

#### Interactive effects

#### 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.

#### CYCLOHEXANE

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

### **ACUTE TOXICITY**

ATE (Inhalation - vapours) of the mixture: > 20 mg/l

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

STYRENE

LD50 (Dermal): > 2000 mg/kg Rat (OECD Guideline 402)

LD50 (Oral): 5000 mg/kg Rat (MSDS Supplier)

LC50 (Inhalation vapours): 11,8 mg/l/4h Rat (Archives of Environmental Health 18: 878-882 - sito ECHA)

ETHYL ACETATE

LD50 (Dermal): 20000 mg/kg Rabbit (Publication Am Ind Hyg Ass J, 23, 95)

LD50 (Oral): 4934 mg/kg Rabbit (Equivalent to OECD 401)
LC50 (Inhalation vapours): 22,5 mg/l/6h Rat (40 CFR Part 799 (58 FR 40262))

2,2 '- [(4-methylphenyl) imino] bisethanol

LD50 (Dermal): > 2000 mg/kg Rat, according to (OECD Guideline 402)
LD50 (Oral): 959 mg/kg Rat, equivalent or similar to (OECD Guideline 401)

MALEIC ANHYDRIDE

 LD50 (Dermal):
 610 mg/kg Rat

 LD50 (Oral):
 400 mg/kg Rat

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LD50 (Dermal): > 9500 mg/kg RAT LD50 (Oral): > 5000 mg/kg RAT

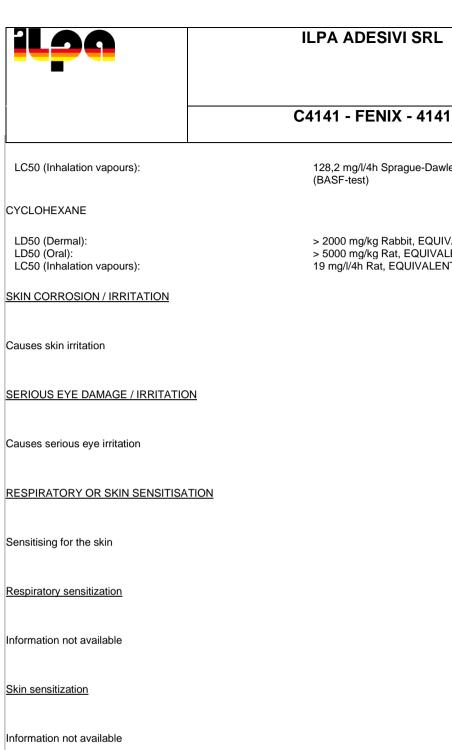
METHANOL

LD50 (Dermal): 17100 mg/kg rabbit

STA (Dermal): 300 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): > 2538 mg/kg rat, equivalent or similar to (OECD Guideline 401)



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128,2 mg/l/4h Sprague-Dawley, according to internal company standards

(BASF-test)

> 2000 mg/kg Rabbit, EQUIVALENT OR SIMILAR TO (OECD Guideline 402) > 5000 mg/kg Rat, EQUIVALENT OR SIMILAR TO (OECD Guideline 401)

19 mg/l/4h Rat, EQUIVALENT OR SIMILAR TO (OECD Guideline 403)

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class



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|----|---|--|-----------------------|
|    |   | OTITI I LINX TITI  | Page n. 18/27         |
| l  | STYRENE<br>Classified in Group 2B (possible humal<br>Classified as "probable carcinogen" by | n carcinogen) by the International Agency for Research on Cancer (IARC) - (IA<br>the US National Toxicology Program (NTP) - (US DHHS, 2014). | NRC, 2002).           |
|    | REPRODUCTIVE TOXICITY   |  |                       |
|    | Suspected of damaging the unborn chi  | ild  |                       |
|    | Adverse effects on sexual function and  | <u>l fertility</u>   |                       |
|    | Information not available   |  |                       |
|    | Adverse effects on development of the   | offspring  |                       |
|    | Information not available   |  |                       |
|    | Effects on or via lactation   |  |                       |
|    | Information not available   |  |                       |
|    | STOT - SINGLE EXPOSURE  |  |                       |
|    | Does not meet the classification criteria   | a for this hazard class  |                       |
|    | Target organs   |  |                       |
|    | Information not available   |  |                       |
|    | Route of exposure   |  |                       |
|    | Information not available   |  |                       |
|    | STOT - REPEATED EXPOSURE  |  |                       |
| -1 |   |  |                       |



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Causes damage to organs

Target organs

Information not available

Route of exposure

Information not available

#### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class Viscosity: 970000 mm2/s

#### 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**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

CYCLOHEXANE

LC50 - for Fish 4,53 mg/l/96h Pimephales promelas, EQUIVALENT OR SIMILAR TO (OECD

Guideline 203)

EC50 - for Crustacea 3,89 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants 32,7 mg/l/72h Chlorella vulgaris

STYRENE

LC50 - for Fish 10 mg/l/96h Pimephales promelas (OECD Guideline 203, GLP)
EC50 - for Crustacea 4,7 mg/l/48h Daphnia magna (OECD Guideline 202, GLP)

EC50 - for Algae / Aquatic Plants 4,9 mg/l/72h Selenastrum capricornutum (EPA OTS 797.1050, GLP)

Chronic NOEC for Crustacea 1,01 mg/l/21d Daphnia magna (OECD Guideline 211, GLP)



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**METHANOL** 

LC50 - for Fish 12700 mg/l/96h Lepomis macrochirus, according to (EPA-660/3-75-009,

1975)

ETHYL ACETATE

LC50 - for Fish 230 mg/l/96h Pimephales promelas (US EPA method E03-05)

EC50 - for Crustacea 165 mg/l/48h Dapnia (Rif. SDS fornitore)

Chronic NOEC for Crustacea 100 mg/l Scenedesmus subspicatus (OECD Guideline 201, GLP)

2,2 '- [(4-methylphenyl) imino] bisethanol

LC50 - for Fish > 100 mg/l/96h Cyprinus carpio, according to (OECD Guideline 203)

EC50 - for Crustacea 48 mg/l/48h Daphnia magna, according to (OECD Guideline 202)

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Pseudokirchneriella subcapitata, according to (OECD

Guideline 201)

### 12.2. Persistence and degradability

DIPROPYLENE GLYCOL MONOMETHYL

**ETHER** 

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

CYCLOHEXANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

STYRENE

Solubility in water 320 mg/l

Rapidly degradable

10 d, 68% according to (ISO DIS 9408)

METHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

(Publication JWPCF 46(1), p63-77)

MALEIC ANHYDRIDE

Solubility in water > 10000 mg/l

Entirely degradable

2,2 '- [(4-methylphenyl) imino] bisethanol

Rapidly degradable

According to: OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)



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### 12.3. Bioaccumulative potential

DIPROPYLENE GLYCOL MONOMETHYL

**ETHER** 

Partition coefficient: n-octanol/water 0,0043

CYCLOHEXANE

Partition coefficient: n-octanol/water 3,44

BCF 167 Pimephales promelas, According to Veith (1979)

STYRENE

Partition coefficient: n-octanol/water 2,96 BCF 74

**METHANOL** 

Partition coefficient: n-octanol/water -0,77 BCF 0,2

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

CYCLOHEXANE

Partition coefficient: soil/water 2,89

**STYRENE** 

Partition coefficient: soil/water 352 (Section 4.3 of Chapter on QSAR in the TGD)

### 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 ≥ 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



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## 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.

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: 3269

#### 14.2. UN proper shipping name

ADR / RID: POLYESTER RESIN KIT (contens: styrene) MIXTURE
IMDG: POLYESTER RESIN KIT (contens: styrene) MIXTURE
IATA: POLYESTER RESIN KIT (contens: styrene) MIXTURE

### 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: III

### 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: -- Limited Quantities: 5 L Tunnel restriction code: (E)



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Special provision: -

IMDG: EMS: F-E, S-D Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 10 Kg Packaging instructions: 370

Pass.: Maximum quantity: 10 Kg Packaging instructions: 370

Special provision: A66, A163

#### 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: P5b

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

#### <u>Product</u>

Point

- 3. Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/ 2008:
- (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F:
- (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;
- (c) hazard class 4.1;
- (d) hazard class 5.1.
- 40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.

#### Contained substance

Point 75

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 ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

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



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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.

### VOC (Directive 2004/42/EC):

Bodyfiller / stopper.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

STYRENE

ETHYL ACETATE

### **SECTION 16. Other information**

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

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Repr. 2 Reproductive toxicity, category 2

Acute Tox. 3 Acute toxicity, category 3

STOT SE 1 Specific target organ toxicity - single exposure, category 1

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

Skin Corr. 1B Skin corrosion, category 1B

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Resp. Sens. 1 Respiratory sensitization, category 1
Skin Sens. 1A Skin sensitization, category 1A

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1



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Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H225 Highly flammable liquid and vapour.H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

**H400** Very toxic to aquatic life.

**H410** Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

#### Use descriptor system:

| PROC | 1  | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.                                |
|------|----|--|
| PROC | 10 | Roller application or brushing   |
| PROC | 11 | Non industrial spraying  |
| PROC | 12 | Use of blowing agents in manufacture of foam   |
| PROC | 13 | Treatment of articles by dipping and pouring   |
| PROC | 14 | Tabletting, compression, extrusion, pelletisation, granulation   |
| PROC | 15 | Use as laboratory reagent  |
| PROC | 3  | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
| PROC | 4  | Chemical production where opportunity for exposure arises  |
| PROC | 5  | Mixing or blending in batch processes  |
| PROC | 7  | Industrial spraying  |
| PROC | 8a | Transfer of substance or mixture (charging and discharging) at non- dedicated facilities   |
| PROC | 8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities  |
| PROC | 9  | Transfer of substance or mixture into small containers (dedicated filling line, including weighing)  |

#### LEGEND:

- 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



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- 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 as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- 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 as for REACH Regulation
- 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
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 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)
   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
- 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.

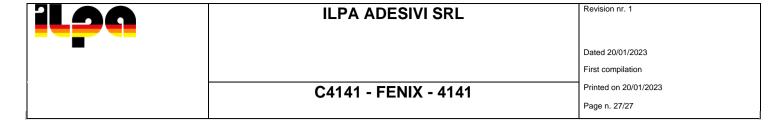
This document must not be regarded as a guarantee on any specific product property.

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.

| Training for workers:  |
|--|
| Norker training should include content, updates and duration depending on the risk profiles assigned to the business sectors they belong |