

**Safety Data Sheet according to Regulation  
(EC) 'No. 2020/878****SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**

|     |                                                                               |                                                                                                                                                       |                  |            |
|-----|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|
| 1.1 | Product Identifier                                                            | 1155B                                                                                                                                                 | Revision Date:   | 23/07/2024 |
|     | Product Name:                                                                 | THERMALINE 440 - B                                                                                                                                    | Supersedes Date: | 13/02/2023 |
|     |                                                                               |                                                                                                                                                       | Version Number:  | 3          |
|     | UFI Code:                                                                     | NXV9-MAVW-R004-WEGK                                                                                                                                   |                  |            |
|     | Contain nanoform:                                                             | Yes                                                                                                                                                   |                  |            |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | Hardener for 2 components coatings - Industrial use. Please see Technical Data Sheet. Advised against: others than recommended                        |                  |            |
|     | Product to be mixed with:                                                     | THERMALINE 440 - A                                                                                                                                    |                  |            |
|     | Mixing ratio by volume Part A/ Part B:                                        | 2 / 1                                                                                                                                                 |                  |            |
| 1.3 | Details of the supplier of the safety data sheet                              |                                                                                                                                                       |                  |            |
|     | Supplier:                                                                     | Carboline Italia, S.p.a.<br>Via Margherita Viganò De Vizzi, 77<br>20092 Cinisello Balsamo (MI)<br>Italy                                               |                  |            |
|     |                                                                               | Regulatory / Technical Information:<br>+32 67493710 Nivelles, Belgium<br>+39 0294759236 Cinisello Balsamo, Italy                                      |                  |            |
|     | Datasheet Produced by:                                                        | Calcagno, Elena - hms@carboline.com                                                                                                                   |                  |            |
| 1.4 | Emergency telephone number:                                                   | CHEMTREC +1 703 5273887 (Outside US)<br>112 (24/7)<br>Croatia +3851 2348 342 (24/7 in Croatian and English)<br>Iceland 112 (24/7)<br>Malta 112 (24/7) |                  |            |

**SECTION 2: Hazards Identification****2.1 Classification of the substance or mixture**

Classification according to Classification, Labeling &amp; Packaging Regulation (EC) 1272/2008

**HAZARD STATEMENTS**

|                                        |      |
|----------------------------------------|------|
| Flammable Liquid, category 3           | H226 |
| Aspiration Hazard, category 1          | H304 |
| Skin Irritation, category 2            | H315 |
| Serious Eye Damage, category 1         | H318 |
| STOT, single exposure, category 3, RTI | H335 |
| STOT, single exposure, category 3, NE  | H336 |
| STOT, repeated exposure, category 2    | H373 |

**2.2 Label elements****Symbol(s) of Product****Signal Word**

Danger

**Named Chemicals on Label**

Butan-1-ol, ethylbenzene, 1-methoxypropan-2-ol, xylene

**HAZARD STATEMENTS**

|                                        |      |                                                                    |
|----------------------------------------|------|--------------------------------------------------------------------|
| Flammable Liquid, category 3           | H226 | Flammable liquid and vapour.                                       |
| Aspiration Hazard, category 1          | H304 | May be fatal if swallowed and enters airways.                      |
| Skin Irritation, category 2            | H315 | Causes skin irritation.                                            |
| Serious Eye Damage, category 1         | H318 | Causes serious eye damage.                                         |
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation.                                  |
| STOT, single exposure, category 3, NE  | H336 | May cause drowsiness or dizziness.                                 |
| STOT, repeated exposure, category 2    | H373 | May cause damage to organs through prolonged or repeated exposure. |

**PRECAUTION PHRASES**

|              |                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                          |
| P302+352     | IF ON SKIN: Wash with plenty of soap and water.                                                                                     |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |
| P331         | Do NOT induce vomiting.                                                                                                             |

**2.3 Other hazards**

No Information

**Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**Endocrine disrupting properties - Toxicity****Name According to EEC****CAS-No.**

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

**Endocrine disrupting properties - Ecotoxicity****Name According to EEC****CAS-No.**

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

**SECTION 3: Composition/Information On Ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures****Hazardous ingredients**

| <u>Name According to EEC</u><br><u>EINEC No.</u><br><u>CAS-No.</u><br><u>REACH Reg No.</u> | <u>%</u> | <u>Classifications</u>                                                                                                                                                                        | <b>SCL Value:</b><br><b>ATE Value:</b><br><b>M-Factor:</b>                                                                 |
|--------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1-methoxypropan-2-ol<br>203-539-1<br>107-98-2<br>01-2119457435-35<br>603-064-00-3          | 25 - <50 | H226-336<br><br>Flam. Liq. 3, STOT SE 3 NE                                                                                                                                                    | <b>SCL Value:</b> -<br><br><b>ATE Value:</b> -<br><br><b>M-Factor:</b> -<br>(acute)<br><br><b>M-Factor:</b> -<br>(chronic) |
| xylene<br>215-535-7<br>1330-20-7<br>01-2119488216-32<br>601-022-00-9                       | 10 - <25 | H226-304-312-315-319-332-335-373-412<br><br>Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2, STOT RE 2, STOT SE 3 RTI | <b>SCL Value:</b> -<br><br><b>ATE Value:</b> -<br><br><b>M-Factor:</b> -<br>(acute)<br><br><b>M-Factor:</b> -<br>(chronic) |

|                                                                                               |            |                                                                                                                            |                                |   |
|-----------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|---|
| Butan-1-ol<br>200-751-6<br>71-36-3<br>01-2119484630-38                                        | 2.5 - <10  | H226-302-315-318-335-336<br><br>Acute Tox. 4 Oral, Eye Dam. 1, Flam. Liq. 3,<br>Skin Irrit. 2, STOT SE 3 NE, STOT SE 3 RTI | <b>SCL Value:</b>              | - |
|                                                                                               |            |                                                                                                                            | <b>ATE Value:</b>              | - |
|                                                                                               |            |                                                                                                                            | <b>M-Factor:<br/>(acute)</b>   | - |
|                                                                                               |            |                                                                                                                            | <b>M-Factor:<br/>(chronic)</b> | - |
| ethylbenzene<br>202-849-4<br>100-41-4<br>01-2119489370-35<br>601-023-00-4                     | 1.0 - <2.5 | H225-304-332-373-412<br><br>Acute Tox. 4 Inhalation, Aquatic Chronic 3,<br>Asp. Tox. 1, Flam. Liq. 2, STOT RE 2            | <b>SCL Value:</b>              | - |
|                                                                                               |            |                                                                                                                            | <b>ATE Value:</b>              | - |
|                                                                                               |            |                                                                                                                            | <b>M-Factor:<br/>(acute)</b>   | - |
|                                                                                               |            |                                                                                                                            | <b>M-Factor:<br/>(chronic)</b> | - |
| Silica, amorphous, fumed,<br>crystalline free<br>231-545-4<br>112945-52-5<br>01-2119379499-16 | 1.0 - <2.5 |                                                                                                                            | <b>SCL Value:</b>              | - |
|                                                                                               |            |                                                                                                                            | <b>ATE Value:</b>              | - |
|                                                                                               |            |                                                                                                                            | <b>M-Factor:<br/>(acute)</b>   | - |
|                                                                                               |            |                                                                                                                            | <b>M-Factor:<br/>(chronic)</b> | - |

## NANOFORMS

Silica, amorphous, fumed,  
crystalline free  
112945-52-5  
231-545-4

### Distribution

D10: 7-15 nm  
D50: 2-30 nm  
D90: 10-35 nm

**Shape:** Spheroidal  
**Crystallinity:** Amorphous  
**Treatment of the surface:** No

**Additional Information:** The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## SECTION 4: First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** Show this safety data sheet to the doctor in attendance.

**AFTER INHALATION:** Move to fresh air. Provide fresh air, rest and warmth. Call a physician immediately. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position.

**AFTER SKIN CONTACT:** Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do not use solvent or thinners to clean skin.

**AFTER EYE CONTACT:** Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

**AFTER INGESTION:** If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Danger of serious damage to health by prolonged exposure. Irritating to respiratory system and skin. Risk of serious damage to the lungs (by aspiration). Vapours may cause drowsiness and dizziness. Causes serious eye damage.

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

Treat symptomatically. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11. When symptoms persist or in all cases of doubt seek medical advice.

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

**FOR SAFETY REASONS NOT TO BE USED:** Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire.

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

Heating or fire conditions liberates toxic gas. Flash back possible over considerable distance. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Vapours may form explosive mixtures with air. Solvent vapours are heavier than air and may spread along floors and ignite.

### 5.3 Advice for firefighters

Fire will produce dense black smoke containing hazardous combustion products (see section 10). In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

## SECTION 6: Accidental Release Measures

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

#### 6.1.1 For non-emergency personnel

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

#### 6.1.2 For emergency responders

See Section 7, 8 and 10 for further information.

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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

Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Clean with detergents. Avoid solvents.

### 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Open drum carefully as content may be under pressure. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

**CONDITIONS TO AVOID:** Avoid heat, sparks, flames and other ignition sources.

**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in upright position only. Storage of flammable liquids. Store away from: oxidising materials, acids, and alkalis.

### 7.3 Specific end use(s)

No specific advice for end use available.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Ingredients with Occupational Exposure Limits (EU)

| <u>Name</u>                                | <u>CAS-No.</u> | <u>LTEL ppm</u> | <u>STEL ppm</u> | <u>STEL mg/m3</u> | <u>LTEL mg/m3</u> |
|--------------------------------------------|----------------|-----------------|-----------------|-------------------|-------------------|
| 1-methoxypropan-2-ol                       | 107-98-2       | 100             | 150             | 568               | 375               |
| xylene                                     | 1330-20-7      | 50              | 100             | 442               | 221               |
| Butan-1-ol                                 | 71-36-3        |                 |                 |                   |                   |
| ethylbenzene                               | 100-41-4       | 100             | 200             | 884               | 442               |
| Silica, amorphous, fumed, crystalline free | 112945-52-5    |                 |                 |                   |                   |

| <u>Name</u>                                | <u>CAS-No.</u> | <u>OEL Note</u> |
|--------------------------------------------|----------------|-----------------|
| 1-methoxypropan-2-ol                       | 107-98-2       | Sk              |
| xylene                                     | 1330-20-7      | Sk              |
| Butan-1-ol                                 | 71-36-3        | Sk              |
| ethylbenzene                               | 100-41-4       | Sk              |
| Silica, amorphous, fumed, crystalline free | 112945-52-5    |                 |

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation. Annotations: Carc = Capable of causing cancer and/or heritable genetic damage, Sen = Capable of causing occupational asthma, Sk = Can be absorbed through the skin.

**Chemical Name:**

1-methoxypropan-2-ol

**EC No.:**

203-539-1

**CAS-No.:**

107-98-2

**DNELs - Derived no effect level**

| Route of Exposure | Workers                 |                         |                       |                          | Consumers          |                        |                       |                          |
|-------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------|------------------------|-----------------------|--------------------------|
|                   | Acute effect local      | Acute effects systemic  | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral              | Not required            |                         |                       |                          |                    |                        | 3.3 mg/kg             |                          |
| Inhalation        | 553.5 mg/m <sup>3</sup> | 553.5 mg/m <sup>3</sup> |                       | 369 mg/m <sup>3</sup>    |                    |                        |                       | 43.9 mg/m <sup>3</sup>   |
| Dermal            |                         |                         |                       | 183 mg/kg bw/day         |                    |                        |                       | 18.1 mg/kg               |

**PNEC's - Predicted no effect concentration**

| Environmental protection target    | PNEC       |
|------------------------------------|------------|
| Fresh water                        | 10 mg/l    |
| Fresh water sediments              | 100 mg/l   |
| Marine water                       | 1 mg/l     |
| Marine sediments                   | 5.2 mg/kg  |
| Food chain                         |            |
| Microorganisms in sewage treatment |            |
| soil (agricultural)                | 5.49 mg/kg |
| Air                                |            |

**Chemical Name:**

xylene

**EC No.:**

215-535-7

**CAS-No.:**

1330-20-7

**DNELs - Derived no effect level**

| Route of Exposure | Workers               |                        |                       |                          | Consumers             |                        |                       |                          |
|-------------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------|------------------------|-----------------------|--------------------------|
|                   | Acute effect local    | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local    | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral              | Not required          |                        |                       |                          |                       |                        |                       | 1.6 mg/kg bw/day         |
| Inhalation        | 289 mg/m <sup>3</sup> | 289 mg/m <sup>3</sup>  |                       | 77 mg/m <sup>3</sup>     | 174 mg/m <sup>3</sup> | 174 mg/m <sup>3</sup>  |                       | 14.8 mg/m <sup>3</sup>   |
| Dermal            |                       |                        |                       | 180 mg/kg bw/day         |                       |                        |                       | 108 mg/kg bw/day         |

**PNEC's - Predicted no effect concentration**

| Environmental protection target    | PNEC        |
|------------------------------------|-------------|
| Fresh water                        | 0.327 mg/L  |
| Fresh water sediments              | 12.46 mg/kg |
| Marine water                       | 0.327 mg/L  |
| Marine sediments                   | 12.46 mg/kg |
| Food chain                         |             |
| Microorganisms in sewage treatment | 6.58 mg/L   |
| soil (agricultural)                | 2.31 mg/kg  |
| Air                                |             |

**Chemical Name:**

Butan-1-ol

**EC No.:**

200-751-6

**CAS-No.:**

71-36-3

**DNELs - Derived no effect level**

| Route of Exposure | Workers            |                        |                       |                          | Consumers          |                        |                       |                          |
|-------------------|--------------------|------------------------|-----------------------|--------------------------|--------------------|------------------------|-----------------------|--------------------------|
|                   | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral              | Not required       |                        |                       |                          |                    |                        |                       | 3,1 mg/kg bw/day         |
| Inhalation        |                    |                        | 310 mg/m <sup>3</sup> |                          |                    |                        | 55 mg/m <sup>3</sup>  |                          |
| Dermal            |                    |                        |                       |                          |                    |                        |                       |                          |

**PNEC's - Predicted no effect concentration**

| Environmental protection target    | PNEC            |
|------------------------------------|-----------------|
| Fresh water                        | 0,082 mg/l      |
| Fresh water sediments              | 0,178 mg/kg dw  |
| Marine water                       | 0,0082 mg/l     |
| Marine sediments                   | 0,0178 mg/kg dw |
| Food chain                         |                 |
| Microorganisms in sewage treatment |                 |
| soil (agricultural)                | 0,015 mg/kg dw  |
| Air                                |                 |

**Chemical Name:**

Silica, amorphous, fumed, crystalline free

**EC No.:**

231-545-4

**CAS-No.:**

112945-52-5

**DNELs - Derived no effect level**

| Route of Exposure | Workers            |                        |                       |                          | Consumers          |                        |                       |                          |
|-------------------|--------------------|------------------------|-----------------------|--------------------------|--------------------|------------------------|-----------------------|--------------------------|
|                   | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral              | Not required       |                        |                       |                          |                    |                        |                       |                          |
| Inhalation        |                    |                        |                       | 4 mg/m <sup>3</sup>      |                    |                        |                       |                          |
| Dermal            |                    |                        |                       |                          |                    |                        |                       |                          |

**PNEC's - Predicted no effect concentration**

| Environmental protection target    | PNEC |
|------------------------------------|------|
| Fresh water                        |      |
| Fresh water sediments              |      |
| Marine water                       |      |
| Marine sediments                   |      |
| Food chain                         |      |
| Microorganisms in sewage treatment |      |
| soil (agricultural)                |      |
| Air                                |      |

**8.2 Exposure controls****Personal Protection**

**RESPIRATORY PROTECTION:** Wear respiratory protection with combination filter (dust and gas filter, EN 14387:2004 +A1:2008) during spraying operations: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust). When working in confined or poorly ventilated spaces, a battery powered assisted air-fed mask must be used.

**EYE PROTECTION:** Face-shield. Safety glasses with side-shields conforming to EN 166.

**HAND PROTECTION:** Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Nitrile rubber. Viton®. Recommended glove material for mixed product: Protective gloves complying with EN 374: Butyl rubber. Nitril rubber.

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location.

**ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                                                               |                           |
|---------------------------------------------------------------|---------------------------|
| Colour:                                                       | Colourless                |
| Physical State                                                | Liquid                    |
| Odor                                                          | Solvent                   |
| Odor threshold                                                | Not determined            |
| pH                                                            | Not determined            |
| Melting point / freezing point (°C)                           | Not determined            |
| Boiling point or initial boiling point and boiling range (°C) | 120 - 144                 |
| Flash Point, (°C)                                             | 26                        |
| Evaporation rate                                              | Not determined            |
| Flammability (solid, gas)                                     | Not determined            |
| Lower and upper explosive limit                               | Not determined            |
| Vapour Pressure                                               | Not determined            |
| Relative vapour density                                       | > 1 (air=1)               |
| Density and/or relative density                               | Not determined            |
| Solubility in / Miscibility with water                        | Negligible                |
| Partition coefficient: n-octanol/water                        | Not determined            |
| Auto-ignition temperature (°C)                                | Not determined            |
| Decomposition temperature (°C)                                | Not determined            |
| Kinematic viscosity                                           | Not determined            |
| Particle characteristics                                      | Not applicable to liquids |

### Nanoform in mixture

|                                                                        |                                   |                |
|------------------------------------------------------------------------|-----------------------------------|----------------|
| Silica, amorphous, fumed, crystalline free<br>112945-52-5<br>231-545-4 | <b>Solubility:</b>                | Not determined |
|                                                                        | <b>NoctanoWater:</b>              | Not determined |
|                                                                        | <b>Partichle Characteristics:</b> | See sec. 3.2   |

### 9.2 Other information

|                                                                                          |      |
|------------------------------------------------------------------------------------------|------|
| VOC Content g/l:                                                                         | 430  |
| Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2. |      |
| Specific Gravity (g/cm3)                                                                 | 1,02 |

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No reactivity hazards known under recommended storage and use conditions.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No reactivity hazards known under recommended storage and use conditions.

**10.4 Conditions to avoid**

Avoid heat, sparks, flames and other ignition sources.

**10.5 Incompatible materials**

Keep away from strong oxidising agents and strongly acid or alkaline materials.

**10.6 Hazardous decomposition products**

In case of fire or hot work operations, **hazardous decomposition products** may be formed such as: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), aliphatic amines, aldehydes.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute Toxicity:**

Oral LD50: No information available.

Inhalation LC50: No information available.

Dermal LD50: No information available.

Irritation: Irritating to skin.

Corrosivity: Causes serious eye damage.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: STOT SE 3 RTI, STOT SE 3 NE

STOT-repeated exposure: STOT RE 2

Aspiration hazard: Aspiration Hazard, category 1

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.  
Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Name According to EEC</u>               | <u>Oral LD50</u>       | <u>Dermal LD50</u>             | <u>Vapor LC50</u>              | <u>Gas LC50</u> | <u>Dust/Mist LC50</u> |
|----------------|--------------------------------------------|------------------------|--------------------------------|--------------------------------|-----------------|-----------------------|
| 107-98-2       | 1-methoxypropan-2-ol                       | 4016 mg/kg (oral-rat)  | >2000 mg/kg (dermal-rat)       | 21 mg/l                        | > 20000 ppm     | No information        |
| 1330-20-7      | xylene                                     | >2000 mg/kg (oral-rat) | 1100 mg/kg (ATE dermal-rabbit) | 11 mg/L (ATE inh/vapour)       | 20001 ppm       | >5 mg/l               |
| 71-36-3        | Butan-1-ol                                 | 790 mg/kg (oral-rat)   | 3400 mg/kg (dermal-rabbit)     | 8000 mg/l 4hrs rat, inhalation | No information  | No information        |
| 100-41-4       | ethylbenzene                               | 3500 mg/kg rat, oral   | 5510 mg/kg, rabbit             | 4000 ppm, rat, 4h              | 10000 ppm       | 1.5 mg/L              |
| 112945-52-5    | Silica, amorphous, fumed, crystalline free | 10000 mg/kg (oral-rat) | No information                 | No information                 | No information  | No information        |

**Additional Information:**

This product may contain Ethyl Benzene, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. Corrosive - causes irreversible eye damage. Chronic exposure causes drying effect on the skin and eczema. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. CNS depressant. Inhalation is the main hazard in industrial use. The solvent vapours can be harmful and cause headaches, nausea, and intoxication. Acts as a defatting agent on skin. Chronic exposure has been associated with various neurotoxic effects including permanent brain damage. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs.

**11.2 Information on other hazards****Endocrine disrupting properties - Toxicity****Name According to EEC****CAS-No.**

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

**SECTION 12: Ecological Information****12.1 Toxicity:**

EC50 48hr (Daphnia): No information

IC50 72hr (Algae): No information

LC50 96hr (fish): No information

**12.2 Persistence and degradability:** No information**12.3 Bioaccumulative potential:** No information**12.4 Mobility in soil:** No information**12.5 Results of PBT and vPvB assessment:** The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.**12.6 Endocrine disrupting properties****Endocrine disrupting properties - Ecotoxicity****Name According to EEC****CAS-No.**

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

**12.7 Other adverse effects:** No information

| <u>CAS-No.</u> | <u>Name According to EEC</u> | <u>EC50 48hr</u>             | <u>IC50 72hr</u>             | <u>LC50 96hr</u>                                                                                                             |
|----------------|------------------------------|------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 107-98-2       | 1-methoxypropan-2-ol         | >21000 mg/L (Daphnia)        | No information               | 6812 mg/L (Leuciscus idus)                                                                                                   |
| 1330-20-7      | xylene                       | 165 mg/L (Daphnia magna 24h) | 3 - 5 mg/L (Selenastrum sp.) | 2 - 11 mg/L (Roccus saxatilis), 8.2 mg/L (Salmo gairdneri), 13.5 mg/L (Lepomis macrochirus), 21.0 mg/L (Pimephales promelas) |
| 71-36-3        | Butan-1-ol                   | No information               | No information               | 1740 mg/L (Pimephales promelas)                                                                                              |

|             |                                            |                |                |                                             |
|-------------|--------------------------------------------|----------------|----------------|---------------------------------------------|
| 100-41-4    | ethylbenzene                               | 1.37 mg/l      | No information | 32 mg/l (Bluegill)                          |
| 112945-52-5 | Silica, amorphous, fumed, crystalline free | No information | No information | >10000 mg/L<br>(LC50,96h,Brachydanio rerio) |

## SECTION 13: Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

**European Waste Code:** No Information

**Packaging Waste Code:** No Information

## SECTION 14: Transport Information

|                                        | ADR/RID              | ADN                  | IMDG                 | IATA                 |
|----------------------------------------|----------------------|----------------------|----------------------|----------------------|
| <b>14.1 UN-number or ID number</b>     | UN1263               | UN1263               | UN1263               | UN1263               |
| <b>14.2 UN proper shipping name</b>    | PAINT                | PAINT                | PAINT                | PAINT                |
| <b>14.3 Transport Hazard Class(es)</b> | 3                    | 3                    | 3                    | 3                    |
| <b>14.4 Packing Group</b>              | III                  | III                  | III                  | III                  |
| <b>14.5 Enviromental Hazards</b>       | Marine pollutant: NO | Marine pollutant: NO | Marine pollutant: NO | Marine pollutant: NO |

**14.6 Special precautions for user** Not applicable

**EmS-No.:** F-E, S-E

**14.7 Maritime transport in bulk according to IMO intruments** Not applicable

## SECTION 15: Regulatory Information

**15.1 Safety, health and environmental regulations/legislation for the substance or mixture:**

**National Regulations:**

|                                                                                              |                    |
|----------------------------------------------------------------------------------------------|--------------------|
| Denmark Product Registration Number:                                                         | Not available      |
| Danish MAL Code:                                                                             | Not available      |
| Danish MAL Code - Mixture:                                                                   | Not available      |
| Sweden Product Registration Number:                                                          | Not available      |
| Norway Product Registration Number:                                                          | Not available      |
| Germany WGK Class:                                                                           | Not available      |
| Directive 2004/42/CE:                                                                        | 500 g/L (subcat j) |
| Covered by Directive 2012/18/EC (Seveso III):                                                | P5c                |
| Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006: | Entry 3, 40        |

**Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:**

| <u>CAS-No.</u> | <u>Name According to EEC</u> |
|----------------|------------------------------|
| Not Applicable |                              |

**SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):**

| <u>CAS-No.</u> | <u>Name According to EEC</u> |
|----------------|------------------------------|
| Not Applicable |                              |

**15.2 Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: Other Information**

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

|      |                                               |
|------|-----------------------------------------------|
| H225 | Highly flammable liquid and vapour.           |
| H226 | Flammable liquid and vapour.                  |
| H302 | Harmful if swallowed.                         |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin.                 |
| H315 | Causes skin irritation.                       |

|      |                                                                    |
|------|--------------------------------------------------------------------|
| H318 | Causes serious eye damage.                                         |
| H319 | Causes serious eye irritation.                                     |
| H332 | Harmful if inhaled.                                                |
| H335 | May cause respiratory irritation.                                  |
| H336 | May cause drowsiness or dizziness.                                 |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects.                 |

**Reasons for revision**

Composition Information Changed

Substance and/or Product Properties Changed in Section(s):

- 01 - Identification
- 02 - Hazard Identification
- 03 - Composition/Information On Ingredients
- 08 - Exposure Controls/Personal Protection
- 09 - Physical and Chemical Properties
- 11 - Toxicological Information
- 15 - Regulatory Information

Substance Chemical Name Changed

Revision Statement(s) Changed

**List of References:**

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

**Acronym & Abbreviation Key:**

|        |                                                                        |
|--------|------------------------------------------------------------------------|
| CLP    | Classification, Labeling & Packaging Regulation                        |
| EC     | European Commission                                                    |
| EU     | European Union                                                         |
| US     | United States                                                          |
| CAS    | Chemical Abstract Service                                              |
| EINECS | European Inventory of Existing Chemical Substances                     |
| REACH  | Registration, Evaluation, Authorization of Chemicals Regulation        |
| GHS    | Globally Harmonized System of Classification and Labeling of Chemicals |
| LTEL   | Long term exposure limit                                               |
| STEL   | Short term exposure limit                                              |
| OEL    | Occupational exposure limit                                            |
| ppm    | Parts per million                                                      |
| mg/m3  | Milligrams per cubic meter                                             |
| TLV    | Threshold Limit Value                                                  |
| ACGIH  | American Conference of Governmental Industrial Hygienists              |
| OSHA   | Occupational Safety & Health Administration                            |
| PEL    | Permissible Exposure Limits                                            |
| VOC    | Volatile organic compounds                                             |
| g/l    | Grams per liter                                                        |
| mg/kg  | Milligrams per kilogram                                                |
| N/A    | Not applicable                                                         |
| LD50   | Lethal dose at 50%                                                     |
| LC50   | Lethal concentration at 50%                                            |
| EC50   | Half maximal effective concentration                                   |
| IC50   | Half maximal inhibitory concentration                                  |
| PBT    | Persistent bioaccumulative toxic chemical                              |
| vPvB   | Very persistent and very bioaccumulative                               |

|          |                                                                                                                                                                                                                                            |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EEC      | European Economic Community                                                                                                                                                                                                                |
| ADR      | International Transport of Dangerous Goods by Road                                                                                                                                                                                         |
| RID      | International Transport of Dangerous Goods by Rail                                                                                                                                                                                         |
| UN       | United Nations                                                                                                                                                                                                                             |
| IMDG     | International Maritime Dangerous Goods Code                                                                                                                                                                                                |
| IATA     | International Air Transport Association                                                                                                                                                                                                    |
| MARPOL   | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978                                                                                                                              |
| IBC      | International Bulk Container                                                                                                                                                                                                               |
| RTI      | Respiratory Tract Irritation                                                                                                                                                                                                               |
| NE       | Narcotic Effects                                                                                                                                                                                                                           |
| IMO      | International Maritime Organization                                                                                                                                                                                                        |
| Note P:  | The classification as a carcinogen or mutagen need not apply; the substance contains less than 0,1 % w/w benzene                                                                                                                           |
| Note 10: | The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$ . |

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.