

**BOSTIK HYTEC E336 XTREM - HARDENER**  
 Supersedes Date: 06-Nov-2019

Revision date 13-Dec-2019  
 Revision Number 3

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

### 1.1. Product Identifier

**Product Name** BOSTIK HYTEC E336 XTREM - HARDENER  
**Pure substance/mixture** Mixture

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

**Recommended use** Curing chemical.  
**Uses advised against** None known.

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

**Company Name**  
 Bostik SA  
 420 rue d'Estienne d'Orves  
 92700 Colombes  
 FRANCE  
 Tel: +33 (0)1 49 00 90 00

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**Emergency Telephone** No information available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|   |                      |
|---|----------------------|
| <b>Skin corrosion/irritation</b>                          | Category 2 - (H315)  |
| <b>Serious eye damage/eye irritation</b>                  | Category 2 - (H319)  |
| <b>Skin sensitisation</b>                                 | Category 1A - (H317) |
| <b>Specific target organ toxicity — repeated exposure</b> | Category 2 - (H373)  |
| <b>Chronic aquatic toxicity</b>                           | Category 2 - (H411)  |

### 2.2. Label Elements

Contains: Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine, Formaldehyde, polymer with benzenamine, hydrogenated, 2,4,6-tris(dimethylaminomethyl)phenol, Triethylenetetramine



**Signal word**  
 WARNING

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## Hazard statements

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H373 - May cause damage to organs through prolonged or repeated exposure  
H411 - Toxic to aquatic life with long lasting effects

## Precautionary statements

P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P260 - Do not breathe vapour  
P280 - Wear protective gloves and eye/face protection  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P273 - Avoid release to the environment  
P501 - Dispose of contents/ container to an approved waste disposal plant

## 2.3. Other Hazards

No information available

## PBT and vPvB assessment

This preparation contains substances considered to be persistent, bio-accumulating and toxic (PBT)

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Mixture

### 3.2. Mixtures Mixtures

| Chemical name   | EC No.    | CAS No.     | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP]  | Specific concentration limit (SCL) | REACH Registration Number |
|---|-----------|-------------|----------|--|------------------------------------|---------------------------|
| Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine | 500-191-5 | 68082-29-1  | 40 - <80 | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317)<br>Aquatic Chronic 2 (H411)                      |                                    | 01-2119972320-44-xxxx     |
| Formaldehyde, polymer with benzenamine, hydrogenated  | -         | 135108-88-2 | 20 - 25  | Skin Corr. 1C (H314)<br>Skin Sens. 1 (H317)<br>Acute Tox. 4 (H302)<br>Aquatic Chronic 3 (H412)<br>STOT RE 2 (H373) |                                    | 01-2119983522-33-XXXX     |
| Benzyl alcohol  | 202-859-9 | 100-51-6    | 20 - 25  | Acute Tox. 4 (H302)  |                                    | 01-2119492630-38-XXXX     |

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|  |           |          |         |   |  |                       |
|--|-----------|----------|---------|---|--|-----------------------|
|  |           |          |         | Acute Tox. 4 (H332)<br>Eye Irrit. 2 (H319)  |  |                       |
| 2,4,6-tris(dimethylamino methyl)phenol | 202-013-9 | 90-72-2  | 5 - <10 | Acute Tox. 4 (H302)<br>Skin Corr. 1C (H314)<br>Eye Dam. 1 (H318)  |  | 01-2119560597-27-XXXX |
| Triethylenetetramine                   | 203-950-6 | 112-24-3 | 1 - <5  | Acute Tox. 4 (H312)<br>Skin Corr. 1B (H314)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 3 (H412)<br>Acute Tox. 4 (H302) |  | No data available     |
| Salicylic acid                         | 200-712-3 | 69-72-7  | 1 - <3  | Eye Dam. 1 (H318)<br>Acute Tox. 4 (H302)<br>Repr. 2 (H361)  |  | 01-2119486984-17-XXXX |

## Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.  |
| <b>Inhalation</b>     | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. |
| <b>Eye contact</b>    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.   |
| <b>Skin contact</b>   | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. May cause an allergic skin reaction.   |
| <b>Ingestion</b>      | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.  |

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**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

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

**Symptoms** Burning sensation. Itching. Rashes. Hives.

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

**Note to doctors** Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitisation in susceptible persons. Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

**Suitable extinguishing media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Full water jet. Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Product is or contains a sensitiser. May cause sensitisation by skin contact.

### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not get in eyes, on skin, or on clothing.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

**Methods for containment** Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

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## 6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

### 7.3. Specific end use(s)

**Specific Use(s)**  
Hardener. Curing chemical.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Exposure Limits

**Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.**

**Derived No Effect Level (DNEL)** No information available

| Derived No Effect Level (DNEL) |  |
|--------------------------------|--|
| Benzyl alcohol (100-51-6)      |  |
| Type                           | worker Long term Systemic health effects |
| Exposure route                 | Inhalation                               |
| Derived No Effect Level (DNEL) | 22 mg/m <sup>3</sup>                     |

|                                |   |
|--------------------------------|---|
| Type                           | worker Short term Systemic health effects |
| Exposure route                 | Inhalation                                |
| Derived No Effect Level (DNEL) | 110 mg/m <sup>3</sup>                     |

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|--------------------------------|--|
| Type                           | worker Long term Systemic health effects |
| Exposure route                 | Dermal                                   |
| Derived No Effect Level (DNEL) | 8 mg/kg bw/d                             |

|                                |   |
|--------------------------------|---|
| Type                           | worker Short term Systemic health effects |
| Exposure route                 | Dermal                                    |
| Derived No Effect Level (DNEL) | 40 mg/kg bw/d                             |

|                                       |  |
|---------------------------------------|--|
| <b>Derived No Effect Level (DNEL)</b> |  |
| <b>Benzyl alcohol (100-51-6)</b>      |  |
| Type                                  | Consumer Long term Systemic health effects |
| Exposure route                        | Inhalation                                 |
| Derived No Effect Level (DNEL)        | 5.4 mg/m <sup>3</sup>                      |

|                                |   |
|--------------------------------|---|
| Type                           | Consumer Short term Systemic health effects |
| Exposure route                 | Inhalation                                  |
| Derived No Effect Level (DNEL) | 27 mg/m <sup>3</sup>                        |

|                                |  |
|--------------------------------|--|
| Type                           | Consumer Long term Systemic health effects |
| Exposure route                 | Dermal                                     |
| Derived No Effect Level (DNEL) | 4 mg/kg bw/d                               |

|                                |   |
|--------------------------------|---|
| Type                           | Consumer Short term Systemic health effects |
| Exposure route                 | Dermal                                      |
| Derived No Effect Level (DNEL) | 20 mg/kg bw/d                               |

|                                |  |
|--------------------------------|--|
| Type                           | Consumer Long term Systemic health effects |
| Exposure route                 | Oral                                       |
| Derived No Effect Level (DNEL) | 4 mg/kg bw/d                               |

|                                |   |
|--------------------------------|---|
| Type                           | Consumer Short term Systemic health effects |
| Exposure route                 | Oral  |
| Derived No Effect Level (DNEL) | 20 mg/kg bw/d                               |

**Predicted No Effect Concentration (PNEC)** No information available.

|   |  |
|---|--|
| <b>Predicted No Effect Concentration (PNEC)</b> |  |
| <b>Benzyl alcohol (100-51-6)</b>                |  |
| Environmental compartment                       | Predicted No Effect Concentration (PNEC) |
| Freshwater                                      | 1 mg/l                                   |
| Marine water                                    | 0.1 mg/l                                 |
| Microorganisms in sewage treatment              | 39 mg/l                                  |
| Freshwater sediment                             | 5.27 mg/kg dry weight                    |
| Marine sediment                                 | 0.527 mg/kg dry weight                   |
| Soil  | 0.456 mg/kg dry weight                   |
| Freshwater - intermittent                       | 2,3 mg/l                                 |

## 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles). Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

#### Hand protection

Recommended Use: Nitrile rubber. Butyl rubber. Unsuitable protective clothing. Leather. Disposable gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Ensure that the breakthrough time of the glove

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|                                 |  |
|---------------------------------|--|
|                                 | material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 240 min. Gloves must conform to standard EN 374 |
| <b>Skin and body protection</b> | Suitable protective clothing.  |
| <b>Respiratory protection</b>   | During spraying wear suitable respiratory equipment. In case of insufficient ventilation, wear suitable respiratory equipment.   |
| <b>Recommended filter type:</b> | Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.   |

**Environmental exposure controls** Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

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

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Liquid                   |
| <b>Appearance</b>      | Liquid                   |
| <b>Colour</b>          | Amber                    |
| <b>Odour</b>           | Amine                    |
| <b>Odour threshold</b> | No information available |

| <u>Property</u>                        | <u>Values</u>                | <u>Remarks • Method</u> |
|--|------------------------------|-------------------------|
| pH                                     | 10                           |                         |
| Melting point / freezing point         | No data available            |                         |
| Boiling point / boiling range          | > 177 °C                     |                         |
| Flash point                            | 117 °C                       |                         |
| Evaporation rate                       | No data available            |                         |
| Flammability (solid, gas)              | Not applicable for liquids . |                         |
| Flammability Limit in Air              |                              |                         |
| Upper flammability or explosive limits | No data available            |                         |
| Lower flammability or explosive limits | No data available            |                         |
| Vapour pressure                        | 3                            |                         |
| Vapour density                         | No data available            |                         |
| Relative density                       | 0.98 - 1.02                  |                         |
| Water solubility                       | Slightly soluble             |                         |
| Solubility(ies)                        | No data available            |                         |
| Partition coefficient                  | No data available            |                         |
| Autoignition temperature               | No data available            |                         |
| Decomposition temperature              | No data available            |                         |
| Kinematic viscosity                    | No data available            |                         |
| Dynamic viscosity                      | 3000 - 4500 mPa s            | @ 23 °C                 |
| Explosive properties                   | No data available            |                         |
| Oxidising properties                   | No data available            |                         |

### 9.2. Other information

|                          |                          |
|--------------------------|--------------------------|
| <b>Solid content (%)</b> | No information available |
| <b>Softening Point</b>   | No information available |
| <b>Molecular weight</b>  | No information available |
| <b>VOC Content (%)</b>   | No information available |
| <b>Density</b>           | No information available |
| <b>Bulk density</b>      | No information available |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.

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## 10.2. Chemical stability

**Stability** Stable under normal conditions.

### **Explosion Data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

## 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

## 10.4. Conditions to avoid

**Conditions to avoid** Exposure to air or moisture over prolonged periods.

## 10.5. Incompatible materials

**Incompatible materials** Acids. Bases. Oxidising agent.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition can lead to release of toxic/corrosive gases and vapours. Ammonia. Amines.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

##### **Product Information**

.

**Inhalation** Based on available data, the classification criteria are not met.

**Eye contact** Causes serious eye irritation. Classification is based on additional test data from raw material supplier.

**Skin contact** Causes skin irritation. Classification is based on additional test data from raw material supplier.

**Ingestion** Based on available data, the classification criteria are not met.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

#### Numerical measures of toxicity

##### **Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (dermal)** 3,916.30 mg/kg

**ATEmix (inhalation-dust/mist)** 9.40 mg/l

**Oral LD50** 2020 mg/kg (rat)

##### **Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------|-------------|-----------------|
|---------------|-----------|-------------|-----------------|



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|---|--|--|-------------------------------------|
| Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine<br>68082-29-1 | LD50 > 2000 mg/kg)                     | LD50 > 2000 mg/kg (Rattus)                               |                                     |
| Formaldehyde, polymer with benzenamine, hydrogenated<br>135108-88-2   | LD50 =368 mg/kg (Rattus)               |  |                                     |
| Benzyl alcohol<br>100-51-6  | LD50 = 1620 mg/kg (Rattus)             | = 2 g/kg (Oryctolagus cuniculus)                         | >4.17 mg/L (Rattus) 4 h             |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>90-72-2  | = 1200 mg/kg ( Rat )                   | = 1280 mg/kg ( Rat )                                     |                                     |
| Triethylenetetramine<br>112-24-3  | LD50 = 1716 mg/kg (Rattus)<br>OECD 401 | LD50 = 1465 mg/kg<br>(Oryctolagus cuniculus)<br>OECD 402 |                                     |
| Salicylic acid<br>69-72-7   | =891 mg/kg (Rattus)                    | > 2 g/kg (Rattus)  | >900 mg/m <sup>3</sup> (Rattus) 1 h |

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

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitisation** May cause sensitisation by skin contact.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name             | European Union |
|---------------------------|----------------|
| Salicylic acid<br>69-72-7 | Repr. 2        |

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish  | Toxicity to Micro-organisms | Crustacea | M-Factor | M-Factor (long-term) |
|---------------|----------------------|-------|-----------------------------|-----------|----------|----------------------|
| Fatty acids,  | -                    | LC50: | -                           | -         |          |                      |

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|--|--|---|--|--|--|--|
| C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine<br>68082-29-1 |  | =7.07mg/L (96h, Danio rerio)  |  |  |  |  |
| Formaldehyde, polymer with benzenamine, hydrogenated<br>135108-88-2                                | -  | LC50 (96h) =63 mg/L (Poecilia reticulata)Static (OECD 203)                          | -  | EC50 (48h) =15.4 mg/L (Daphnia magna)Static (OECD 202) |  |  |
| Benzyl alcohol<br>100-51-6   | EC 50 (72h) = 700 mg/L (Pseudokirchnerella subcapitata) OECD 201   | LC50 96 h = 460 mg/L (Pimephales promelas static)                                   | EC50 = 50 mg/L 5 min<br>EC50 = 63.7 mg/L 15 min<br>EC50 = 63.7 mg/L 5 min<br>EC50 = 71.4 mg/L 30 min | EC50 48 h = 230 mg/L (Daphnia magna)                   |  |  |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>90-72-2   | EC50 (72h) = 84 mg/L (Desmodesmus subspicatus) OECD 201  | CL50 (96h) =175 mg/L (Cyprinus carpio)  | -  | -  |  |  |
| Triethylenetetramine<br>112-24-3   | EC50: =20mg/L (72h, Pseudokirchnerella subcapitata)<br>EC50: =3.7mg/L (96h, Pseudokirchnerella subcapitata)<br>EC50: =2.5mg/L (72h, Desmodesmus subspicatus) | LC50: =495mg/L (96h, Pimephales promelas) LC50: =570mg/L (96h, Poecilia reticulata) | -  | EC50: =31.1mg/L (48h, Daphnia magna)                   |  |  |
| Salicylic acid<br>69-72-7  | EC50 (72 h) > 100 mg/L (Scenedesmus subspicatus) OECD 201  | LC50 (96)> 100 mg/L (Pimephales promelas)   | -  | EC50 48 h = 870 mg/L (Daphnia magna Static)            |  |  |

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

## **Component Information**

| Chemical name                                    | Partition coefficient | Bioconcentration factor (BCF) |
|--|-----------------------|-------------------------------|
| Benzyl alcohol<br>100-51-6                       | 1.1                   | -                             |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>90-72-2 | 0.219                 | -                             |
| Triethylenetetramine<br>112-24-3                 | -1.4                  | -                             |
| Salicylic acid<br>69-72-7                        | 2.26                  | 1000                          |

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## 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This preparation contains substances considered to be persistent, bio-accumulating and toxic (PBT). .

| Chemical name   | PBT and vPvB assessment         |
|---|---------------------------------|
| Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine<br>68082-29-1 | The substance is not PBT / vPvB |
| Formaldehyde, polymer with benzenamine, hydrogenated<br>135108-88-2   | The substance is not PBT / vPvB |
| Benzyl alcohol<br>100-51-6  | The substance is not PBT / vPvB |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>90-72-2  | The substance is not PBT / vPvB |
| Salicylic acid<br>69-72-7   | The substance is not PBT / vPvB |

## 12.6. Other adverse effects

Other adverse effects No information available.

## Endocrine Disruptor Information

| Chemical name        | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances |
|----------------------|--|--|
| Triethylenetetramine | Group III Chemical                       | -  |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**Contaminated packaging** Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.

**Waste codes / waste designations according to EWC / AVV** 15 01 10\*: Packaging containing residues of or contaminated by dangerous substances. 16 03 03\* inorganic wastes containing hazardous substances. 16 05 05 gases in pressure containers other than those mentioned in 16 05 04. Waste codes should be assigned by the user based on the application for which the product was used.

**Other information** Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1 UN Number

UN3082

14.2 Proper Shipping Name

Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine)

14.3 Transport hazard class(es)

9

Labels

9

14.4 Packing Group

III

Description

UN3082, Environmentally hazardous substances, liquid, n.o.s (Fatty acids,

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14.5 Environmental hazards C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine), 9, III  
Yes  
14.6 Special Provisions 274, 335, 601, 375  
Classification Code M6  
Limited Quantity (LQ) 5 L  
ADR Hazard Id (Kemmler Number) 90

## IMDG

14.1 UN number UN3082  
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine), Marine Pollutant  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine), 9, III, Marine Pollutant  
14.5 Marine Pollutant P  
14.6 Special Provisions 274, 335, 969  
Limited Quantity (LQ) 5 L  
EmS-No. F-A, S-F  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

## Air transport (ICAO-TI / IATA-DGR)

14.1 UN number UN3082  
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine), 9, III  
14.5 Environmental hazards Yes  
14.6 Special Provisions A97, A158, A197  
Limited Quantity (LQ) 30 kg G  
ERG Code 9L

## Section 15: REGULATORY INFORMATION

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

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## Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

## Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

## Persistent Organic Pollutants

Not applicable

## National Regulations

### France

#### Occupational Illnesses (R-463-3, France)

| Chemical name                    | French RG number |
|----------------------------------|------------------|
| Benzyl alcohol<br>100-51-6       | RG 84            |
| Triethylenetetramine<br>112-24-3 | RG 49, RG 49bis  |

### Germany

#### Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) WGK 2

### Netherlands

#### List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

| Chemical name             | Netherlands              |
|---------------------------|--------------------------|
| Salicylic acid<br>69-72-7 | Development (Category 2) |

## 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction

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H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H373 - May cause damage to organs through prolonged or repeated exposure  
H411 - Toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

## Legend

SVHC: Substances of Very High Concern for Authorisation:

**Legend** SECTION 8: Exposure controls/personal protection  
TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value \* Skin designation  
PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
STOT RE Specific target organ toxicity - Repeated exposure  
STOT SE Specific target organ toxicity - Single exposure  
EWC: European Waste Catalogue

## Key literature references and sources for data

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 13-Dec-2019

## Indication of changes

**Revision note** SDS sections updated, 2.

**Training Advice** When working with hazardous materials, regular training of operators is required by law

**Further information** No information available

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**