

## Safety data sheet according to UK REACH

Printing date 08.02.2025

Version number 1.3 (replaces version 1.2)

Revision: 08.02.2025

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

- **Product identifier**
- **Trade name:** EPIRAM
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Fungicide
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
JT Agro Limited  
Lees Mill Lane  
Huddersfield, HD7 5QE, UK  
Email: info@jtcrop.com
- **Further information obtainable from:** product safety department
- **Emergency telephone number:**  
Posion center of the Charité Berlin: +49 30 19240  
E-Mail: giftnotruf@charite.de

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS07 GHS09

- **Signal word** Warning
- **Hazard statements**  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P264 Wash thoroughly after handling.  
P280 Wear eye protection / 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.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P391 Collect spillage.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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GB

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· **Additional information:**

EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| CAS: 67674-67-3                                                 | 1,1,1,3,5,5-Heptamethyl-3-(propyl(poly(EO)) hydroxy)trisiloxane<br>⚠ Acute Tox. 1, H310; ⚠ Eye Dam. 1, H318;<br>⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332<br>ATE: LD50 inhalative: 1.5 mg/kg                                                                                                                                                                                                                                                                                                                                                                                   | ≥10-<25%          |
| CAS: 120116-83-3<br>EC number: 616-166-0                        | Cyazofamid (ISO)<br>⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≥10-≤25%          |
| CAS: 577-11-7<br>EINECS: 209-406-4<br>Reg.nr.: 01-2119491296-29 | Docusate sodium<br>⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ≥3-<10%           |
| CAS: 81065-51-2<br>Reg.nr.: 01-2120771866-38-0000               | Naphthalenesulfonic acid, methyl-, polymer with formaldehyde, sodium salt<br>⚠ Eye Dam. 1, H318                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≥3-≤10%           |
| CAS: 2682-20-4<br>EINECS: 220-239-6                             | 2-methyl-2H-isothiazol-3-one<br>⚠ Acute Tox. 3, H301; Acute Tox. 3, H311;<br>Acute Tox. 2, H330; ⚠ Skin Corr. 1B, H314;<br>Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Skin Sens. 1A, H317, EUH071<br>Specific concentration limit:<br>Skin Sens. 1A;H317: C ≥ 0.0015 %                                                                                                                                                                                                                                                                       | <0.0015%          |
| CAS: 55965-84-9<br>Reg.nr.: 01-2120764691-48-XXXX               | Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)<br>⚠ Acute Tox. 3, H301; Acute Tox. 2, H310;<br>Acute Tox. 2, H330; ⚠ Skin Corr. 1C, H314;<br>Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100);<br>⚠ Skin Sens. 1A, H317, EUH071<br>Specific concentration limits:<br>Skin Corr. 1C;H314: C ≥ 0.6 %<br>Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 %<br>Eye Dam. 1; H318: C ≥ 0.6 %<br>Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %<br>Skin Sens. 1A; H317: C ≥ 0.0015 % | ≥0.00025-<0.0015% |

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

preservation agents (METHYLISOTHIAZOLINONE, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1))

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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## 4 First aid measures

- **Description of first aid measures**
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - *Requirements to be met by storerooms and receptacles:* No special requirements.
  - *Information about storage in one common storage facility:* Not required.
  - *Further information about storage conditions:* Keep container tightly sealed.
  - *Storage class (TRGS):* 10
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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|                                                                                                                                                         |                                           |                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------|
| · <b>DNELs</b>                                                                                                                                          |                                           |                                         |
| <b>55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</b> |                                           |                                         |
| Oral                                                                                                                                                    | DNEL Long-term - oral, systemic effects   | 0.09 mg/kg_bw/day (general public)      |
|                                                                                                                                                         | DNEL Acute - oral, systemic effects       | 0.11 mg/kg bw/day (general public)      |
| Inhalative                                                                                                                                              | DNEL long-term - inhalation local effects | 0.02 mg/m <sup>3</sup> (Worker)         |
|                                                                                                                                                         |                                           | 0.02 mg/m <sup>3</sup> (general public) |
|                                                                                                                                                         | DNEL Acute - inhalation, local effects    | 0.04 mg/m <sup>3</sup> (Worker)         |
|                                                                                                                                                         |                                           | 0.04 mg/m <sup>3</sup> (general public) |
| · <b>PNECs</b>                                                                                                                                          |                                           |                                         |
| <b>55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</b> |                                           |                                         |
| PNEC short term, sea water                                                                                                                              |                                           | 0.00339 mg/l                            |
| PNEC short term, sewage plant                                                                                                                           |                                           | 0.23 mg/l                               |
| PNEC short term fresh water sediment                                                                                                                    |                                           | 0.027 mg/kg                             |
| PNEC short term soil                                                                                                                                    |                                           | 0.027 mg/kg                             |
| PNEC short term, intermittent releases                                                                                                                  |                                           | 0.00339 mg/l                            |

· **Additional information:** The lists valid during the making were used as basis.

### · Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Hand protection**



Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Colour:**

Milky

· **Odour:**

Odourless

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|                                                            |                          |
|------------------------------------------------------------|--------------------------|
| · Odour threshold:                                         | Not determined.          |
| · Melting point/freezing point:                            | Undetermined.            |
| · Boiling point or initial boiling point and boiling range | Undetermined.            |
| · Flammability                                             | Not applicable.          |
| · Lower and upper explosion limit                          |                          |
| · Lower:                                                   | Not determined.          |
| · Upper:                                                   | Not determined.          |
| · Flash point:                                             | >79 °C                   |
| · Auto-ignition temperature:                               | 439 °C                   |
| · Decomposition temperature:                               | Not determined.          |
| · pH at 20 °C                                              | 7.17 (1%)                |
| · Viscosity:                                               |                          |
| · Kinematic viscosity                                      | Not determined.          |
| · <b>Viscosity at 100°C:</b>                               |                          |
| · Dynamic at 20 °C:                                        | 156-914 mPas             |
| · Solubility                                               |                          |
| · water:                                                   | Fully miscible.          |
| · Partition coefficient n-octanol/water (log value)        | Not determined.          |
| · Vapour pressure:                                         | Not determined.          |
| · Density and/or relative density                          |                          |
| · Density at 20 °C:                                        | 1.0809 g/cm <sup>3</sup> |
| · Relative density                                         | Not determined.          |
| · <b>Density (@15°C)</b>                                   | Not determined.          |
| · Vapour density                                           | Not determined.          |

|                                                                                        |                                               |
|----------------------------------------------------------------------------------------|-----------------------------------------------|
| · <b>Other information</b>                                                             |                                               |
| · <b>Appearance:</b>                                                                   |                                               |
| · Form:                                                                                | Fluid                                         |
| · <b>Important information on protection of health and environment, and on safety.</b> |                                               |
| · Ignition temperature:                                                                | Product is not selfigniting.                  |
| · Explosive properties:                                                                | Product does not present an explosion hazard. |
| · Solvent content:                                                                     |                                               |
| · VOC (EC)                                                                             | 0.00 %                                        |
| · Solids content:                                                                      | 0.0 %                                         |
| · <b>Change in condition</b>                                                           |                                               |
| · Evaporation rate                                                                     | Not determined.                               |

|                                                                             |      |
|-----------------------------------------------------------------------------|------|
| · <b>Information with regard to physical hazard classes</b>                 |      |
| · Explosives                                                                | Void |
| · Flammable gases                                                           | Void |
| · Aerosols                                                                  | Void |
| · Oxidising gases                                                           | Void |
| · Gases under pressure                                                      | Void |
| · Flammable liquids                                                         | Void |
| · Flammable solids                                                          | Void |
| · Self-reactive substances and mixtures                                     | Void |
| · Pyrophoric liquids                                                        | Void |
| · Pyrophoric solids                                                         | Void |
| · Self-heating substances and mixtures                                      | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids                                                         | Void |
| · Oxidising solids                                                          | Void |
| · Organic peroxides                                                         | Void |
| · Corrosive to metals                                                       | Void |
| · Desensitised explosives                                                   | Void |

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## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- **Acute toxicity**

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

| 67674-67-3 1,1,1,3,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxy)trisiloxane                                                                        |                                                  |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------|
|                                                                                                                                                  | Acute toxicity estimates                         | 11 mg/kg  |
| 2682-20-4 2-methyl-2H-isothiazol-3-one                                                                                                           |                                                  |           |
| Oral                                                                                                                                             | Acute Toxicity Estimate of ingredient (ATE) oral | 100 mg/kg |
|                                                                                                                                                  | Acute toxicity estimates                         | 300 mg/kg |
| 55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) |                                                  |           |
| Oral                                                                                                                                             | Acute Toxicity Estimate of ingredient (ATE) oral | 100 mg/kg |
| Inhalative                                                                                                                                       | Acute toxicity Estimate inhalative (4h)          | 0.31 mg/l |
|                                                                                                                                                  | Acute toxicity estimates                         | 200 mg/kg |

- *LD/LC50 values relevant for classification:*

### ATE (Acute Toxicity Estimates)

|            |      |              |
|------------|------|--------------|
| Inhalative | LD50 | 7.5-15 mg/kg |
|------------|------|--------------|

| 67674-67-3 1,1,1,3,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxy)trisiloxane                                                                        |                |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|
| Dermal                                                                                                                                           | LD50           | 5 mg/kg (ATE)          |
| Inhalative                                                                                                                                       | LD50           | 1.5 mg/kg (ATE)        |
| 577-11-7 Docusate sodium                                                                                                                         |                |                        |
| Oral                                                                                                                                             | LD50           | >3,000 mg/kg (rat)     |
| Dermal                                                                                                                                           | LD50           | >10,000 mg/kg (rabbit) |
| 2682-20-4 2-methyl-2H-isothiazol-3-one                                                                                                           |                |                        |
| Oral                                                                                                                                             | LD50           | 120 mg/kg (rat)        |
| Dermal                                                                                                                                           | LC50 (4h) mg/l | 242 mg/l (rat)         |
| Inhalative                                                                                                                                       | LC50 (4h)      | 0.11 mg/l (rat)        |
| 55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) |                |                        |
| Oral                                                                                                                                             | LD50           | 66 mg/kg (rat)         |
| Dermal                                                                                                                                           | LD50           | >141 mg/kg (rat)       |
| Inhalative                                                                                                                                       | LC50 (4h)      | 0.17 mg/l (rat)        |

- *Primary irritant effect:*
- *Serious eye damage/irritation* Causes serious eye irritation.
- **Information on other hazards**

### Endocrine disrupting properties

None of the ingredients is listed.

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## 12 Ecological information

### · Toxicity

#### · **Aquatic toxicity:**

##### **120116-83-3 Cyazofamid (ISO)**

LC50 (96h) &gt;0.107 mg/l (Oncorhynchus mykiss)

EC50 (48h) &gt;1.107 mg/l (daphnia)

##### **2682-20-4 2-methyl-2H-isothiazol-3-one**

LC50 (96h) mg/ltr. 6 mg/ltr (rainbow trout)

EC50 (48h) 1.6 mg/l (daphnia)

EC50 (72h) 0.157 mg/l (algae)

· **Persistence and degradability** No further relevant information available.· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.

#### · **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.· **vPvB:** Not applicable.

#### · **Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **Other adverse effects** No further relevant information available.

#### · **Additional ecological information:**

##### · **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

## 13 Disposal considerations

### · **Waste treatment methods**

#### · **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

### · **UN number or ID number**

#### · **ADR, IMDG, IATA**

UN3082

### · **UN proper shipping name**

#### · **ADR**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (cyazofamid (ISO))

#### · **IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (cyazofamid (ISO))

### · **Transport hazard class(es)**

#### · **ADR, IMDG**



#### · **Class**

9 Miscellaneous dangerous substances and articles.

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|                                                                                   |                                                                                                                          |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| · <i>Label</i>                                                                    | 9                                                                                                                        |
| · <b>IATA</b>                                                                     |                                                                                                                          |
|  |                                                                                                                          |
| · <i>Class</i>                                                                    | 9 Miscellaneous dangerous substances and articles.                                                                       |
| · <i>Label</i>                                                                    | 9                                                                                                                        |
| · <b>Packing group</b>                                                            | III                                                                                                                      |
| · <b>ADR, IMDG, IATA</b>                                                          |                                                                                                                          |
| · <b>Environmental hazards:</b>                                                   | Product contains environmentally hazardous substances:<br>1,1,1,3,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxy)trisiloxane |
| · <b>Special marking (IATA):</b>                                                  | Symbol (fish and tree)                                                                                                   |
| · <b>Special precautions for user</b>                                             | Warning: Miscellaneous dangerous substances and articles.                                                                |
| · <i>Hazard identification number (Kemler code):</i>                              | 90                                                                                                                       |
| · <i>EMS Number:</i>                                                              | F-A,S-F                                                                                                                  |
| · <i>Stowage Category</i>                                                         | A                                                                                                                        |
| · <b>Maritime transport in bulk according to IMO instruments</b>                  | Not applicable.                                                                                                          |
| · <b>Transport/Additional information:</b>                                        |                                                                                                                          |
| · <b>ADR</b>                                                                      |                                                                                                                          |
| · <i>Limited quantities (LQ)</i>                                                  | 5L                                                                                                                       |
| · <i>Excepted quantities (EQ)</i>                                                 | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml         |
| · <i>Transport category</i>                                                       | 3                                                                                                                        |
| · <i>Tunnel restriction code</i>                                                  | (-)                                                                                                                      |
| · <b>IMDG</b>                                                                     |                                                                                                                          |
| · <i>Limited quantities (LQ)</i>                                                  | 5L                                                                                                                       |
| · <i>Excepted quantities (EQ)</i>                                                 | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml         |
| · <b>UN "Model Regulation":</b>                                                   | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYAZOFAMID (ISO)), 9, III                                   |

## 15 Regulatory information

|                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|
| · <b>Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)</b> |
| None of the ingredients is listed.                                                                                               |
| · <b>Poisons Act</b>                                                                                                             |
| · <i>Regulated explosives precursors</i>                                                                                         |
| None of the ingredients is listed.                                                                                               |
| · <i>Regulated poisons</i>                                                                                                       |
| None of the ingredients is listed.                                                                                               |
| · <i>Reportable explosives precursors</i>                                                                                        |
| None of the ingredients is listed.                                                                                               |

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· *Reportable poisons*

None of the ingredients is listed.

· **Directive 2012/18/EU**

- *Named dangerous substances - ANNEX I* None of the ingredients is listed.
- *Seveso category E1* Hazardous to the Aquatic Environment
- *Qualifying quantity (tonnes) for the application of lower-tier requirements* 100 t
- *Qualifying quantity (tonnes) for the application of upper-tier requirements* 200 t
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

· **Disclaimer**

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

· **Relevant phrases**

- H301 Toxic if swallowed.
- H310 Fatal in contact with skin.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

· **Contact:** MSDS authorized Person· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- ATE: Acute toxicity estimate values
- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 1: Acute toxicity – Category 1
- Acute Tox. 2: Acute toxicity – Category 2
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Corr. 1C: Skin corrosion/irritation – Category 1C
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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**Safety data sheet**  
**according to UK REACH**

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**Trade name: EPIRAM**

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Skin Sens. 1A: Skin sensitisation – Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **\* *Data compared to the previous version altered.***

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