

**SCHEDA DI DATI DI SICUREZZA**  
secondo il Regolamento (CE) Num. 1907/2006 (REACH)

SALDA METALLI SIRINGA MIX - Resin  
cod. 57043001  
Revision: 3.2 / EN

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Date of print: 30/05/2019  
Date of review: 30/05/2019

## Safety data sheet

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

#### 1.1. Product identifier

Product name **SALDA METALLI SIRINGA MIX - Resin** cod. 57043001

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Intended use **EPOXY ADHESIVE. To be used in combination with SALDA METALLI SIRINGA MIX - Hardener**  
Uses advised against **This product is not recommended for all those uses not specifically identified on the label.**

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

Name **Saratoga Int. Sforza SpA**  
Full address **Via Edison 76**  
District and Country **20090 Trezzano s/Naviglio (MI)  
ITALY**  
tel. **+39-0131-791366**  
fax. **+39-0131-773782**

e-mail address of the competent person  
responsible for the Safety Data Sheet **trading@saratogasforza.com**

#### 1.4. Emergency telephone number

For urgent inquiries refer to  
**CAV - Ospedale Pediatrico "Bambino Gesù" - Roma - Tel. +39 06 68593726 (h24)**  
**CAV - Azienda Ospedaliero-Universitaria Foggia - Foggia - Tel. +39 0881 732326 (h24)**  
**CAV - Azienda Ospedaliera "A. Cardarelli" - Napoli - Tel. +39 081 7472870 (h24)**  
**CAV - Policlinico "Umberto I" - Roma - Tel. +39 06 4450618 (h24)**  
**CAV - Policlinico "A. Gemelli" - Roma - Tel. +39 06 3054343 (h24)**  
**CAV - Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica - Firenze - Tel. +39 055 7947819(h24)**  
**CAV - Centro Nazionale di Informazione Tossicologica - Pavia - Tel. +39 0382 24444 (h24)**  
**CAV - Ospedale "Niguarda Ca' Granda" - Milano - Tel. +39 02 66101029 (h24)**  
**CAV - Azienda Ospedaliera "Papa Giovanni XXIII" - Bergamo - Tel. +39 800 883300(h24)**

### SECTION 2. Hazards identification

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

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

|  |      |  |
|--|------|--|
| Eye irritation, category 2   | H319 | Causes serious eye irritation.                   |
| Skin irritation, category 2  | H315 | Causes skin irritation.                          |
| Skin sensitization, category 1                                     | H317 | May cause an allergic skin reaction.             |
| Hazardous to the aquatic environment, chronic toxicity, category 2 | H411 | Toxic to aquatic life with long lasting effects. |

#### 2.2. Label elements

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

Hazard pictograms:



Signal words:                      Warning

Hazard statements:

|               |   |
|---------------|---|
| <b>H319</b>   | Causes serious eye irritation.  |
| <b>H315</b>   | Causes skin irritation.   |
| <b>H317</b>   | May cause an allergic skin reaction.                                  |
| <b>H411</b>   | Toxic to aquatic life with long lasting effects.                      |
| <b>EUH205</b> | Contiene componenti epossidici. Può provocare una reazione allergica. |

Precautionary statements:

|                       |  |
|-----------------------|--|
| <b>P101</b>           | If medical advice is needed, have product container or label at hand.  |
| <b>P102</b>           | Keep out of reach of children.   |
| <b>P261</b>           | Avoid breathing vapours .  |
| <b>P273</b>           | Avoid release to the environment.  |
| <b>P280</b>           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| <b>P302+P352</b>      | IF ON SKIN: Wash with plenty of soap and water.  |
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>P501</b>           | Dispose of contents / container to an authorized collection centers.   |

**Contains:**                      2,2-bis(4-(2,3-Epossipropossi)-fenil)-propano  
Formaldeide, prodotti di reazione oligomerici con 1-cloro-2,3-eossipropano e fenolo  
N,N'-Etan-1,2-dillbis(12-idrossiottadecan-1-amide)

### 2.3. Other hazards

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

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

| Identification                                       | x = Conc. %  | Classification 1272/2008 (CLP)   |
|--|--------------|----------------------------------|
| <b>2,2-bis(4-(2,3-Epossipropossi)-fenil)-propano</b> |              |                                  |
| CAS 1675-54-3  | 75 ≤ x < 100 | Eye Irrit. 2 H319, Skin Irrit. 2 |

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|   |            |   |
|---|------------|---|
| EC 216-823-5  |            | H315, Skin Sens. 1 H317,<br>Aquatic Chronic 2 H411                  |
| INDEX -   |            |   |
| Reg. no. 01-2119456619-26-XXXX  |            |   |
| <b>Formaldehyde, oligomeric reaction products with<br/>1-chloro-2,3-epoxypropane and phenol</b> |            |   |
| CAS 9003-36-5   | 5 ≤ x < 10 | Skin Irrit. 2 H315, Skin Sens.<br>1 H317, Aquatic Chronic 2<br>H411 |
| EC 500-006-8  |            |   |
| INDEX -   |            |   |
| Reg. no. 01-2119454392-40-XXXX  |            |   |
| <b>ALUMINIUM POWDER (PYROPHORIC)</b>  |            |   |
| CAS 7429-90-5   | 5 ≤ x < 10 | Pyr. Sol. 1 H250, Water-<br>react. 2 H261, Note T                   |
| EC 231-072-3  |            |   |
| INDEX 013-001-00-6  |            |   |
| <b>[3-(2,3-EPOXYPROPOXY) PROPYL]<br/>TRIMETHOXYSILANE</b>                                       |            |   |
| CAS 2530-83-8   | 1 ≤ x < 3  | Eye Dam. 1 H318   |
| EC 219-784-2  |            |   |
| INDEX -   |            |   |
| Reg. no. 01-2119513212-58-XXXX  |            |   |
| <b>N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-<br/>amide)</b>                                |            |   |
| CAS 123-26-2  | 0 ≤ x < 1  | Skin Sens. 1B H317, Aquatic<br>Chronic 2 H411                       |
| EC  |            |   |
| INDEX -   |            |   |

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

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

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

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

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

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

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

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

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

Information not available

## SECTION 5. Firefighting measures

**5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT  
Chemical powder.  
UNSUITABLE EXTINGUISHING EQUIPMENT  
Do not use water.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE  
No information available.

**5.3. Advice for firefighters**

GENERAL INFORMATION  
Flammable gases develop in contact with water or moisture.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS  
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.  
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

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

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

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Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

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

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Avoid leakage of the product into the environment. Work in adequately ventilated areas. Avoid flames and sparks. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Keep the product in clearly labelled containers. Keep containers well sealed. Avoid contact with water or that may absorb moisture at all costs. Avoid violent blows. Avoid overheating. Store in a ventilated and dry place, far away from sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):  
10

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

|     |                |  |
|-----|----------------|--|
| DEU | Deutschland    | MAK-und BAT-Werte-Liste 2012   |
| ESP | España         | INSHT - Límites de exposición profesional para agentes químicos en España 2015 |
| FRA | France         | JORF n°0109 du 10 mai 2012 page 8773 texte n° 102                              |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits  |
| GRC | Ελλάδα         | ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου19 - 9<br>Φεβρουαρίου2012     |

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POL Polska ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia  
16 grudnia 2011r  
TLV-ACGIH ACGIH 2016

**ALUMINIUM POWDER (PYROPHORIC)**

**Threshold Limit Value**

| Type      | Country | TWA/8h |     | STEL/15min |       |
|-----------|---------|--------|-----|------------|-------|
|           |         | mg/m3  | ppm | mg/m3      | ppm   |
| MAK       | DEU     | 1,5    |     |            |       |
| MAK       | DEU     | 0,3    |     |            | RESP  |
| MAK       | DEU     | 4      |     |            | INHAL |
| VLA       | ESP     | 10     |     |            |       |
| VLEP      | FRA     | 10     |     |            |       |
| WEL       | GBR     | 4      |     |            |       |
| TLV       | GRC     | 10     |     |            |       |
| NDS       | POL     | 2,5    |     |            | INHAL |
| NDS       | POL     | 1,2    |     |            | RESP  |
| TLV-ACGIH |         | 1      | 0,9 |            |       |

**[3-(2,3-EPOXYPROPOXY) PROPYL] TRIMETHOXYSILANE**

Predicted no-effect concentration - PNEC

|  |      |       |
|--|------|-------|
| Normal value in fresh water                  | 1    | mg/l  |
| Normal value in marine water                 | 0,1  | mg/l  |
| Normal value for fresh water sediment        | 0,79 | mg/kg |
| Normal value for water, intermittent release | 1    | mg/l  |
| Normal value of STP microorganisms           | 10   | mg/l  |
| Normal value for the terrestrial compartment | 0,13 | mg/kg |

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

| Route of exposure | Effects on consumers |         | Effects on workers |         |
|-------------------|----------------------|---------|--------------------|---------|
|                   | mg/m3                | mg/kg/d | mg/m3              | mg/kg/d |
| Inhalation        | 147                  |         | 147                |         |
| Skin              |                      | 21      |                    | 21      |

Legend:

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

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

**8.2. Exposure controls**

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

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

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

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

Protect hands with category III work gloves (see standard EN 374).

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The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

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

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

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

#### ENVIRONMENTAL EXPOSURE CONTROLS

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

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

## SECTION 9. Physical and chemical properties

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

|  |                                   |
|--|-----------------------------------|
| Appearance                             | pasty                             |
| Colour                                 | aluminium                         |
| Odour                                  | mild                              |
| Odour threshold                        | Not available                     |
| pH                                     | N.A.                              |
| Melting point / freezing point         | Not available                     |
| Initial boiling point                  | > 250 °C                          |
| Boiling range                          | Not available                     |
| Flash point                            | > 150 °C                          |
| Evaporation Rate                       | Not available                     |
| Flammability of solids and gases       | Not available                     |
| Lower flammability limit               | Not available                     |
| Upper flammability limit               | Not available                     |
| Lower explosive limit                  | Not available                     |
| Upper explosive limit                  | Not available                     |
| Vapour pressure                        | Not available                     |
| Vapour density                         | Not available                     |
| Relative density                       | 1,00                              |
| Solubility                             | insoluble                         |
| Partition coefficient: n-octanol/water | Not available                     |
| Auto-ignition temperature              | Not available                     |
| Decomposition temperature              | Not available                     |
| Viscosity                              | >20,5 mm <sup>2</sup> /sec (40°C) |
| Explosive properties                   | Not available                     |
| Oxidising properties                   | Not available                     |

### 9.2. Other information

|                              |         |
|------------------------------|---------|
| Total solids (250°C / 482°F) | 10,00 % |
|------------------------------|---------|

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## **SECTION 10. Stability and reactivity**

### **10.1. Reactivity**

Information not available

### **10.2. Chemical stability**

Information not available

### **10.3. Possibility of hazardous reactions**

The product may react violently with water.

### **10.4. Conditions to avoid**

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

### **10.5. Incompatible materials**

Information not available

### **10.6. Hazardous decomposition products**

Information not available

## **SECTION 11. Toxicological information**

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

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

### **11.1. Information on toxicological effects**

Metabolism, toxicokinetics, mechanism of action and other information  
Information not available



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Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component)

LD50 (Oral) of the mixture: Not classified (no significant component)

LD50 (Dermal) of the mixture: Not classified (no significant component)

[3-(2,3-EPOXYPROPOXY) PROPYL] TRIMETHOXYSILANE

LD50 (Oral) 8025 mg/kg Rat - Wistar

LD50 (Dermal) 4250 mg/kg Rabbit - New Zealand white

LC50 (Inhalation)

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains: N,N'-Etan-1,2-dillbis(12-idrossittadecan-1-amide)

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: >20,5 mm<sup>2</sup>/sec (40°C)

## SECTION 12. Ecological information

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

### 12.1. Toxicity

[3-(2,3-EPOXYPROPOXY)

PROPYL]

TRIMETHOXYSILANE

LC50 - for Fish

55 mg/l/96h Cyprinus carpio

EC50 - for Crustacea

324 mg/l/48h Simocephalus vetulus

### 12.2. Persistence and degradability

ALUMINIUM POWDER

(PYROPHORIC)

Solubility in water

0 mg/l

Degradability: information not available

[3-(2,3-EPOXYPROPOXY)

PROPYL]

TRIMETHOXYSILANE

NOT rapidly degradable

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### 12.3. Bioaccumulative potential

[3-(2,3-EPOXYPROPOXY)  
PROPYL]

TRIMETHOXSILANE

Partition coefficient: n-  
octanol/water

-2,6

### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information

### 14.1. UN number

ADR / RID, IMDG, 3082

IATA:

ADR / RID: In accordance  
with Special  
Provision 375,  
this product,  
when is packed in  
receptacles of a  
capacity ≤5Kg or  
5L, is not  
submitted to ADR  
provisions.

IMDG: In accordance  
with Section  
2.10.2.7 of IMDG  
Code, this

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IATA: product, when is packed in receptacles of a capacity  $\leq$ 5Kg or 5L, is not submitted to IMDG Code provisions. In accordance with SP A197, this product, when is packed in receptacles of a capacity  $\leq$ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

**14.2. UN proper shipping name**

ADR / RID: ENVIRONMENT ALLY  
HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.  
(2,2-bis(4-(2,3-Epossipropossi)-fenil)-propano;  
Formaldeide,  
prodotti di reazione oligomerici con 1-cloro-2,3-epossipropano e fenolo)

IMDG: ENVIRONMENT ALLY  
HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.  
(2,2-bis(4-(2,3-Epossipropossi)-fenil)-propano;  
Formaldeide,  
prodotti di reazione oligomerici con 1-cloro-2,3-eossipropano e fenolo)

IATA: ENVIRONMENT ALLY  
HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.  
(2,2-bis(4-(2,3-Epossipropossi)-fenil)-propano;  
Formaldeide,  
prodotti di reazione oligomerici con 1-cloro-2,3-eossipropano e fenolo)

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**14.3. Transport hazard class(es)**

ADR / RID: Class: 9 Label: 9



IMDG: Class: 9 Label: 9



IATA: Class: 9 Label: 9



**14.4. Packing group**

ADR / RID, IMDG, III  
IATA:

**14.5. Environmental hazards**

ADR / RID: Environmentally  
Hazardous



IMDG: Marine Pollutant



IATA: Environmentally  
Hazardous



**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: 90

Limited  
Quantities: 5  
L

Tunnel  
restriction  
code: (-)

Special Provision: -

IMDG: EMS: F-A, S-F

Limited  
Quantities: 5  
L

IATA: Cargo:

Maximum  
quantity: 450  
L

Packaging  
instructions:  
964

Pass.:

Maximum  
quantity: 450  
L

Packaging  
instructions:  
964

Special Instructions:

A97, A158,  
A197

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

**SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EC: E2

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

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Product

Point 3

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

German regulation on the classification of substances hazardous to water (VwVwS 2005)

WGK 2: Hazard to waters

**15.2. Chemical safety assessment**

No chemical safety assessment has been processed for the mixture and the substances it contains.

**SECTION 16. Other information**

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

|                          |  |
|--------------------------|--|
| <b>Pyr. Sol. 1</b>       | Pyrophoric solid, category 1                                       |
| <b>Eye Dam. 1</b>        | Serious eye damage, category 1                                     |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <b>Skin Sens. 1B</b>     | Skin sensitization, category 1B                                    |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>H250</b>              | Catches fire spontaneously if exposed to air.                      |
| <b>H261</b>              | In contact with water releases flammable gases.                    |

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|             |  |
|-------------|--|
| <b>H318</b> | Causes serious eye damage.                       |
| <b>H319</b> | Causes serious eye irritation.                   |
| <b>H315</b> | Causes skin irritation.                          |
| <b>H317</b> | May cause an allergic skin reaction.             |
| <b>H411</b> | Toxic to aquatic life with long lasting effects. |

**LEGEND:**

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

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.  
This document must not be regarded as a guarantee on any specific product property.  
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

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

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 06 / 08 / 09 / 11 / 12 / 14 / 15 / 16.