**EPOXY ACRYLATE CHEMICAL ANCHOR** 

Revision nr. 1

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Printed on 05/08/2015

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# Safety data sheet

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

1.1. Product identifier

Code: 155 00 05300-34/410-410 ml 155 00 05400-34/300-300 ml

Product name EPOXY ACRYLATE CHEMICAL ANCHOR

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

Intended use Resin for chemical anchoring

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

Name MECCANOCAR ITALIA S.R.L.
Full address Via San Francesco, 22
District and Country 56033 Capannoli (PI)

Italy

Tel. +390587609433 Fax +390587607145

e-mail address of the competent person

responsible for the Safety Data Sheet moreno.meini@meccanocar.it

## 1.4. Emergency telephone number

For urgent inquiries refer to +390587609433

## **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.

#### 2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

 Muta. 2
 H341

 Skin Corr. 1B
 H314

 Eye Dam. 1
 H318

 Skin Sens. 1
 H317

 Aquatic Chronic 2
 H411

## 2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols:

C-N

R phrases:

20/21/22-34-43-51/53-Muta. Cat. 3 68

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

#### 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:

Danger

#### Hazard statements:

H341 Suspected of causing genetic defects.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.

## Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash thoroughly after handling.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

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

#### 2.3. Other hazards.

Information not available.

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

#### 3.1. Substances.

Information not relevant.

## 3.2. Mixtures.

## Contains:

| Identification. REACTION PRODUCT: BISPHENOL A- | Conc. %.  | Classification 67/548/EEC.  | Classification 1272/2008 (CLP).   |
|--|-----------|-----------------------------|---|
| (EPICHLORHYDRIN)<br>CAS. 25068-38-6            | 37,5 - 40 | Xi R36/38, Xi R43, N R51/53 | Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1<br>H317, Aquatic Chronic 2 H411 |
| FO 500 000 F                                   |           |                             |   |

EC. 500-033-5

INDEX. 603-074-00-8

**BISPHENOL-F EPICHLORHYDRIN RESIN:** 

MW<700

CAS. 9003-36-5 18 - 19,5 Xi R38, Xi R43, N R51/53 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC. -INDEX. -

## 1,6-HEXANDIOLDIGLYCIDYLETHER

#### Dated 5/8/2015 **EPOXY ACRYLATE CHEMICAL ANCHOR** Printed on 05/08/2015 Page n. 3/13 CAS. 16096-31-4 18 - 19,5 R52/53 Xi R36/38 Xi R43 Eve Irrit, 2 H319, Skin Irrit, 2 H315, Skin Sens, 1 H317, Aquatic Chronic 3 H412 EC. -INDEX. -3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Skin Sens. 1 H317, Aquatic Chronic 3 R52/53, C R34, Xn R21/22, Xi R43 CAS. 2855-13-2 9 - 10.5 EC. 220-666-8 INDEX. 612-067-00-9 M-PHENYLENEBIS (METHYLAMINE) R52/53, C R34, Xn R20/22, Xi R43 Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. CAS. 1477-55-0 2.5 - 3 1B H314, Skin Sens. 1B H317, Aquatic Chronic 3 H412, EUH071 EC. 216-032-5 INDEX. -**BENZYL ALCOHOL** CAS. 100-51-6 2,5 - 3 Xn R20/22 Acute Tox. 4 H302, Acute Tox. 4 H332 EC. 202-859-9 INDEX. 603-057-00-5 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL Xn R22, Xi R36/38 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 CAS. 90-72-2 2,5 - 3 H315 FC. 202-013-9 INDEX. 603-069-00-0 2,2'-DIAMINODIETHYLAMINE C R34, Xn R21/22, Xi R43 Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. CAS. 111-40-0 2.5 - 3 1B H314, Skin Sens, 1 H317 EC. 203-865-4 INDEX. 612-058-00-X **PHENOL**

MECCANOCAR ITALIA S.R.L.

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Muta, 2 H341, Acute Tox, 3 H301, Acute Tox, 3

Corr. 1B H314

H311, Acute Tox. 3 H331, STOT RE 2 H373, Skin

Note: Upper limit is not included into the range.

CAS. 108-95-2

EC. 203-632-7 INDEX. 604-001-00-2

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

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

Muta, Cat. 3 R68, T R23/24/25, C R34.

Xn R48/20/21/22

## **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.

2,5 - 3

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.

For symptoms and effects caused by the contained substances, see chap. 11.

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# **EPOXY ACRYLATE CHEMICAL ANCHOR**

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters.

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### **SECTION 6. Accidental release measures.**

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions.

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

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. 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.**

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# 7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. 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. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

## 7.3. Specific end use(s).

Information not available.

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

#### 8.1. Control parameters.

Regulatory References:

United Kingdom EH40/2005 Workplace exposure limits. Containing the list of workplace exposure

limits for use with the Control of Substances Hazardous to Health Regulations (as

amended).

Éire Code of Practice Chemical Agent Regulations 2011.

OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive

2000/39/EC.

TLV-ACGIH ACGIH 2012

| PHENOL                 |         |        |     |            |     |      |  |
|------------------------|---------|--------|-----|------------|-----|------|--|
| Threshold Limit Value. |         |        |     |            |     |      |  |
| Туре                   | Country | TWA/8h |     | STEL/15min |     |      |  |
|                        |         | mg/m3  | ppm | mg/m3      | ppm |      |  |
| TLV-ACGIH              |         | 19,2   | 5   |            |     |      |  |
| OEL                    | EU      | 8      | 2   | 16         | 4   | SKIN |  |
| OEL                    | IRL     | 8      | 2   | 16         | 4   | SKIN |  |
| WEL                    | UK      | 7,8    | 2   | 16         | 4   | SKIN |  |

| 2,2'-DIAMINODIETHYLAM Threshold Limit Value. | IINE    |        |     |            |     |      |  |
|--|---------|--------|-----|------------|-----|------|--|
| Туре   | Country | TWA/8h |     | STEL/15min |     |      |  |
|  |         | mg/m3  | ppm | mg/m3      | ppm |      |  |
| OEL  | IRL     | 4      | 1   |            |     | SKIN |  |
| WEL  | UK      | 4,3    | 1   |            |     | SKIN |  |
| TLV-ACGIH                                    |         | 4,2    | 1   |            |     |      |  |

| M-PHENYLENEBIS (METHYLAMINE) |         |        |     |            |     |  |
|------------------------------|---------|--------|-----|------------|-----|--|
| Threshold Limit Value.       |         |        |     |            |     |  |
| Туре                         | Country | TWA/8h |     | STEL/15min |     |  |
|                              |         | mg/m3  | ppm | mg/m3      | ppm |  |
| TLV-ACGIH                    |         |        |     | 0,1 (C)    |     |  |

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Legend:

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

#### 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).

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 A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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

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

## ENVIRONMENTAL EXPOSURE CONTROLS.

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

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** paste Colour various characteristic Odour Odour threshold. Not available. pH. Not available. Melting point / freezing point. Not available Initial boiling point. Not available. Boiling range. Not available. Flash point. Not available Evaporation rate Not available. Flammability (solid, gas) Not available. Lower inflammability limit. Not available.

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insoluble in water

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Upper inflammability limit. Not available. Lower explosive limit. Not available. Upper explosive limit. Not available Vapour pressure. Not available. Vapour density Not available. Relative density. 1.440 Ka/l

Solubility Partition coefficient: n-octanol/water Not available. Auto-ignition temperature. Not available. Not available Decomposition temperature. Viscosity Not available. Explosive properties Not available. Oxidising properties Not available.

#### 9.2. Other information.

Information not available.

# SECTION 10. Stability and reactivity.

#### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

BENZYL ALCOHOL: decomposes at temperatures higher than 870 °C with possibility of explosion.

## 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

# 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

BENZYL ALCOHOL: may react dangerously with: hydrobromic acid and iron in the presence of heat, oxidising agents and sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE: can react dangerously with strong oxidising agents and concentrated acids.

## 10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

BENZYL ALCOHOL: avoid exposure to the air, sources of heat and naked flames.

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE: avoid contact with strong oxidising agents and acids.

#### 10.5. Incompatible materials.

BENZYL ALCOHOL: sulphuric acid, oxidising substances and aluminium.

#### 10.6. Hazardous decomposition products.

Information not available.

# **SECTION 11. Toxicological information.**

#### 11.1. Information on toxicological effects.

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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.

This product must be handled carefully because of its possible mutagenic effects. Anyway, currently available data are insufficient to definitively prove hereditary gene alterations.

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. Possible vapours are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours.

Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness.

If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

## M-PHENYLENEBIS (METHYLAMINE)

LD50 (Oral). > 200 mg/kg Rat - Sprague-Dawley

LD50 (Dermal). 3100 mg/kg Rat

LC50 (Inhalation). 1,34 mg/l Rat - Wistar

#### BENZYL ALCOHOL

LD50 (Oral). 1230 mg/kg Rat

LD50 (Dermal). 2000 mg/kg Rabbit

LC50 (Inhalation). > 4,1 mg/l/4h Rat

#### 2.2'-DIAMINODIETHYLAMINE

LD50 (Oral). 1140 mg/kg Rat

LD50 (Dermal). 1045 mg/kg Rabbit

LC50 (Inhalation). 1,8 mg/l/4h Rat

## PHENOL

LD50 (Oral). 282 mg/kg Rat LD50 (Dermal). 660 mg/kg Rat

# **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.

## M-PHENYLENEBIS (METHYLAMINE)

LC50 - for Fish.

87,6 mg/l Oryzias latipes

EC50 - for Crustacea.

15,2 mg/l Daphnia magna

EC50 - for Algae / Aquatic Plants.

20,3 mg/l Pseudokirchnerella subcapitata

## 12.2. Persistence and degradability.

Information not available.

## 12.3. Bioaccumulative potential.

Information not available.

## 12.4. Mobility in soil.

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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.

Avoid littering. Do not contaminate soil, sewers and waterways.

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.**

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

| Road | and | rail | transpo | rt: |
|------|-----|------|---------|-----|
|      |     |      |         |     |

ADR/RID Class: 8 UN: 3259

Packing Group: II
Label: 8
Nr. Kemler: 80
Limited Quantity. 1 kg
Tunnel restriction code. (E)

Proper Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID,

CORROSIVE, N.O.S.

Carriage by sea (shipping):

IMO Class: 8 UN:

Packing Group: II
Label: 8
EMS: F-A, S-B

Marine Pollutant. NO

Proper Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID,

CORROSIVE, N.O.S.

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Transport by air:

UN: 8 3259 IATA:

Packing Group: П Label: R

Cargo:

863 50 Kg Packaging instructions: Maximum quantity:

Pass.:

859 15 Kg Packaging instructions: Maximum quantity:

Special Instructions: A3, A803

Proper Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID,

CORROSIVE, N.O.S.

# **SECTION 15. Regulatory information.**

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

Seveso category. 9ii

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

Product.

Point. 3

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisarion (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.

15.2. Chemical safety assessment.

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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:

Muta. 2 Germ cell mutagenicity, category 2

Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B Skin corrosion, category 1B

Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2 Skin irritation, category 2

Skin Sens. 1 Skin sensitization, category 1

Skin Sens. 1B Skin sensitization, category 1B

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H341 Suspected of causing genetic defects.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.
H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

**EUH071** Corrosive to the respiratory tract.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

R20/22 HARMFUL BY INHALATION AND IF SWALLOWED.

R21/22 HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.

R22 HARMFUL IF SWALLOWED.

R23/24/25 TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

R34 CAUSES BURNS.

R36/38 IRRITATING TO EYES AND SKIN.

R38 IRRITATING TO SKIN.

R43 MAY CAUSE SENSITISATION BY SKIN CONTACT.

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HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION. IN CONTACT WITH SKIN AND IF

R51/53 TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT.

R52/53 HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT.

Muta, Cat. 3 Mutagenicity, category 3.

R68 POSSIBLE RISK OF IRREVERSIBLE EFFECTS.

#### LEGEND:

R48/20/21/22

- 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. Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 6. Regulation (EC) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
- 8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
- 9. The Merck Index. 10th Edition
- 10. Handling Chemical Safety
- 11. Niosh Registry of Toxic Effects of Chemical Substances
- 12. INRS Fiche Toxicologique (toxicological sheet)
- 13. Patty Industrial Hygiene and Toxicology
- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 15. ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

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

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

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

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