

**EPOTAR 40 COMP A - EPOTAR 40 COMP A****Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Code: EPOTAR 40 COMP A  
Product name: EPOTAR 40 COMP A

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

Intended use: Part of a two-component system

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

Name: DRACO ITALIANA S.p.A.  
Full address: Via Monte Grappa, 11 D-E  
District and Country: 20067 Tribiano (MI)  
Italy  
Tel.: +39 02.90632917  
Fax: +39 02.90631976  
e-mail address of the competent person responsible for the Safety Data Sheet: info@draco-edilizia.it

**1.4. Emergency telephone number**

For urgent inquiries refer to:  
Centro Antiveleni di Bergamo 800883300 (Azienda Ospedaliera Papa Giovanni XXII)  
Centro Antiveleni di Firenze 0557947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica)  
Centro Antiveleni di Foggia 80018345 (Az. Osp. Univ. Foggia)  
Centro Antiveleni di Milano 0266101029 (Osp. Niguarda Ca' Granda)  
Centro Antiveleni di Napoli 0817472870 (Az. Osp. "A. Cardarelli")  
Centro Antiveleni di Pavia 038224444 (CAV Centro Nazionale di Informazione Tossicologica)  
Centro Antiveleni di Roma 063054343 (CAV Policlinico "A. Gemelli")  
Centro Antiveleni di Roma 0649978000 (CAV Policlinico "Umberto I")  
Centro Antiveleni di Roma 06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA)

**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 (EU) Regulation 2015/830. 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**

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

Hazard pictograms:



**EPOTAR 40 COMP A - EPOTAR 40 COMP A****SECTION 2. Hazards identification ... / >>**

Signal words: Warning

Hazard statements:

**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.  
**EUH205** Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements:

**P280** Wear protective gloves / eye protection / face protection.  
**P273** Avoid release to the environment.  
**P391** Collect spillage.  
**P261** Avoid breathing dust / fume / gas / mist / vapours / spray.  
**P333+P313** If skin irritation or rash occurs: Get medical advice / attention.  
**P337+P313** If eye irritation persists: Get medical advice / attention.

Contains:

1-chloro-2,3-epoxypropane  
 C12-C14-alkyl glycidyl ethers (Oxirane, mono [(C12-14-alkyloxy) methyl] derivs)  
 BisphenolF diglycidylether  
 Polypropyleneglycol-epichlorohydrin copolymer

**2.3. Other hazards**

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

**SECTION 3. Composition/information on ingredients****3.2. Mixtures**

Contains:

| Identification   | x = Conc. %                    | Classification 1272/2008 (CLP)  |
|--|--------------------------------|---|
| <b>1-chloro-2,3-epoxypropane</b>   |                                |   |
| CAS  | 25068-38-6 $9 \leq x < 25$     | <b>Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411</b> |
| EC   | 500-033-5                      |   |
| INDEX  |                                |   |
| Reg. no.   | 01-2119456619-26               |   |
| <b>Polypropyleneglycol-epichlorohydrin copolymer</b>                                   |                                |   |
| CAS  | 9072-62-2 $10 \leq x < 20$     | <b>Eye Irrit. 2 H319, STOT SE 3 H335, Skin Sens. 1 H317, Aquatic Chronic 3 H412</b>     |
| EC   |                                |   |
| INDEX  |                                |   |
| Reg. no.   | Exempt Art. 2(9) REACH         |   |
| <b>C12-C14-alkyl glycidyl ethers (Oxirane, mono [(C12-14-alkyloxy) methyl] derivs)</b> |                                |   |
| CAS  | 68609-97-2 $1 \leq x < 5$      | <b>Skin Irrit. 2 H315, Skin Sens. 1 H317</b>  |
| EC   | 271-846-8                      |   |
| INDEX  |                                |   |
| Reg. no.   | Polymer (art. 2(9), art. 6(3)) |   |
| <b>BisphenolF diglycidylether</b>  |                                |   |
| CAS  | 9003-36-5 $2,5 \leq x < 5$     | <b>Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411</b>                    |
| EC   | 500-006-8                      |   |
| INDEX  |                                |   |
| Reg. no.   | 01-2119454392-40               |   |

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash

**EPOTAR 40 COMP A - EPOTAR 40 COMP A****SECTION 4. First aid measures ... / >>**

contaminated clothing before using it again. INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

Polypropyleneglycol-epichlorohydrin copolymer

General information: First aid personnel must wear the appropriate personal protective equipment during rescue operations. Wear protective clothing as described in Section 8 of this safety data sheet. Do not take any action that involves personal risks or if you do not have adequate training.

Inhalation: Take the affected person to fresh air and keep him warm and at rest in a position that promotes breathing. Rinse nose and mouth with water. Consult a doctor if the discomfort continues.

Ingestion: Wash out mouth thoroughly with water. Do not induce vomiting in the absence of instructions to that effect from medical personnel. Consult a doctor.

Skin contact: Immediately take off all contaminated clothing and wash the skin with soap and water. Get medical attention immediately if symptoms occur after washing.

Eye contact: Rinse immediately with plenty of water. Remove any contact lenses and keep the eyelids well separated. Continue to rinse for 30 minutes. Get immediate medical attention. Continue to rinse.

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

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

Polypropyleneglycol-epichlorohydrin copolymer

Inhalation: May irritate the respiratory tract.

Skin contact: May cause an allergic skin reaction. Prolonged or repeated contact with the skin can cause irritation, redness and dermatitis.

Prolonged contact causes severe tissue damage.

Eye contact: Causes serious eye irritation.

**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.

Polypropyleneglycol-epichlorohydrin copolymer

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water spray.

Unsuitable extinguishing media Do not use water jet as an extinguishing agent as it causes fire to spread.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

Polypropyleneglycol-epichlorohydrin copolymer

Specific hazards:

Harmful to aquatic life with long lasting effects. Receptacles can burst violently or explode if heated due to excessive pressure build-up.

Thermal degradation or combustion can release carbon oxides and other gases toxic vapors.

Hazardous combustion products:

Thermal decomposition or combustion products can include the following substances: Phenolic. Fire smoke or acrid smoke. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Toxic gases or vapors. Irritating gases or vapors. Acids. Alkali. Amines.

**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

**EPOTAR 40 COMP A - EPOTAR 40 COMP A****SECTION 5. Firefighting measures ... / >>**

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).

Polypropyleneglycol-epichlorohydrin copolymer

Evacuate the area. Do not take any action that involves personal risks or if you do not have adequate training. Cool the containers exposed to heat by spraying water and remove them from the fire area if this can be done without risk. Do not use water jet as an extinguishing agent as it causes the spread of the fire. Check the runoff water by containing it and preventing it from reaching sewers and waterways. Contain and collect the extinction water.

**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.

Polypropyleneglycol-epichlorohydrin copolymer

Evacuate the area. Do not take any action that involves personal risks or if you do not have adequate training. Follow the precautions for safe handling described in this safety data sheet. Keep unnecessary and unprotected personnel away from spills. Provide adequate ventilation. Avoid inhalation of vapors and contact with skin and eyes. Do not touch the spilled material or walk on it. Eliminate all sources of ignition.

**6.2. Environmental precautions**

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

Polypropyleneglycol-epichlorohydrin copolymer

Evacuate the area. Do not take any action that involves personal risks or if you do not have adequate training. Follow the precautions for safe handling described in this safety data sheet. Keep unnecessary and unprotected personnel away from spills. Provide adequate ventilation. Avoid inhalation of vapors and contact with skin and eyes. Do not touch the spilled material or walk on it. Eliminate all sources of ignition.

**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. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

Polypropyleneglycol-epichlorohydrin copolymer

Evacuate the area. Do not take any action that involves personal risks or if you do not have adequate training. Follow the precautions for safe handling described in this safety data sheet. Keep unnecessary and unprotected personnel away from spills. Provide adequate ventilation. Avoid inhalation of vapors and contact with skin and eyes. Do not touch the spilled material or walk on it. Eliminate all sources of ignition.

**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**

Polypropyleneglycol-epichlorohydrin copolymer

Evacuate the area. Do not take any action that involves personal risks or if you do not have adequate training. Follow the precautions for safe handling described in this safety data sheet. Keep unnecessary and unprotected personnel away from spills. Provide adequate ventilation. Avoid inhalation of vapors and contact with skin and eyes. Do not touch the spilled material or walk on it. Eliminate all sources of ignition.

**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)**

**EPOTAR 40 COMP A - EPOTAR 40 COMP A**

Information not available

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters****C12-C14-alkyl glycidyl ethers (Oxirane, mono [(C12-14-alkyloxy) methyl] derivs)****Predicted no-effect concentration - PNEC**

|  |         |       |
|--|---------|-------|
| Normal value in fresh water                  | 0,0072  | mg/l  |
| Normal value in marine water                 | 0,00072 | mg/l  |
| Normal value for fresh water sediment        | 66,77   | mg/kg |
| Normal value for marine water sediment       | 6,677   | mg/kg |
| Normal value for water, intermittent release | 0,072   | mg/l  |
| Normal value of STP microorganisms           | 10      | mg/l  |
| Normal value for the terrestrial compartment | 80,12   | mg/kg |

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

| Route of exposure | Effects on consumers |          |         | Effects on workers |         |          |         |          |
|-------------------|----------------------|----------|---------|--------------------|---------|----------|---------|----------|
|                   | Acute                | Chronic  | Chronic | Acute              | Chronic | Chronic  | Chronic | Chronic  |
|                   | local                | systemic | local   | systemic           | local   | systemic | local   | systemic |
| Oral              |                      | 40       | 1       |                    | 68      | 1,7      |         |          |
|                   |                      | mg/kg/d  | mg/kg/d |                    | mg/kg/d | mg/kg/d  |         |          |
| Inhalation        | 2,9                  | 7,6      | 1,46    | 4,1                | 9,8     | 29       | 0,98    | 13,8     |
|                   | mg/m3                | mg/m3    | mg/m3   | mg/m3              | mg/m3   | mg/m3    | mg/m3   | mg/m3    |
| Skin              |                      | 10       |         | 2,35               |         | 17       |         | 3,9      |
|                   |                      | mg/kg/d  |         | mg/kg/d            |         | mg/kg/d  |         | mg/kg/d  |

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).

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 Regulation 2016/425 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.

Polypropyleneglycol-epichlorohydrin copolymer

**Hand protection**

Wear impervious, chemical resistant gloves that conform to an approved standard if a risk assessment indicates the possibility of skin contact. To protect hands from chemicals, gloves must comply with the European standard EN374. The cracking time of the chosen gloves must be at least 8 hours.

Choose the most suitable gloves by contacting the supplier / manufacturer of the gloves, who can provide information on the cracking time of the material with which the gloves are made. Wear protective gloves made of the following material: Butyl rubber. Polyethylene / Ethylene Vinyl Alcohol (PE / EVAL). Nitrile rubber. Neoprene. Polyvinyl chloride (PVC).

**EPOTAR 40 COMP A - EPOTAR 40 COMP A****Respiratory protection**

Respiratory equipment complying with an approved standard must be used if a risk assessment indicates the possibility of inhalation of contaminants. Make sure that all respiratory protective devices are suitable for the intended use and are CE marked. If ventilation is insufficient, suitable respiratory equipment must be used. Wear a respirator equipped with the following cartridge: Gas filter, type A2.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

| Properties                             | Value                  | Information |
|--|------------------------|-------------|
| Appearance                             | paste                  |             |
| Colour                                 | black                  |             |
| Odour                                  | odourless              |             |
| Odour threshold                        | Not available          |             |
| pH                                     | Not determined         |             |
| Melting point / freezing point         | Not available          |             |
| Initial boiling point                  | Not available          |             |
| Boiling range                          | Not available          |             |
| Flash point                            | > 60 °C                |             |
| Evaporation rate                       | Not available          |             |
| Flammability (solid, gas)              | Not available          |             |
| Lower inflammability limit             | Not available          |             |
| 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                       | 1,65 g/cm <sup>3</sup> |             |
| Solubility                             | not applicable         |             |
| Partition coefficient: n-octanol/water | Not determined         |             |
| Auto-ignition temperature              | Not available          |             |
| Decomposition temperature              | Not available          |             |
| Viscosity                              | Not available          |             |
| Explosive properties                   | Not available          |             |
| Oxidising properties                   | Not available          |             |

**9.2. Other information**

VOC (Directive 2010/75/EC) : 10,88 % - 179,47 g/litre

**SECTION 10. Stability and reactivity****10.1. Reactivity**

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

**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.

Polypropyleneglycol-epichlorohydrin copolymer

Under normal conditions of storage and use, hazardous reactions will not occur.

Reactions with the following materials can generate heat: Amines. It can cure.

**10.4. Conditions to avoid**

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

Polypropyleneglycol-epichlorohydrin copolymer

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods. Store at temperatures not exceeding 300 °

**EPOTAR 40 COMP A - EPOTAR 40 COMP A****SECTION 10. Stability and reactivity ... / >>**

C. It decomposes at temperatures above 350 ° C. Receptacles can burst violently or explode if heated due to excessive pressure build-up.

**10.5. Incompatible materials**

Polypropyleneglycol-epichlorohydrin copolymer

Avoid contact with the following materials: Acids. Alkali. Amines. Oxidizing materials.

**10.6. Hazardous decomposition products**

Polypropyleneglycol-epichlorohydrin copolymer

Thermal decomposition or combustion products can include the following substances: Phenolic. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Fire smoke or acre smoke. Toxic gases or vapors. Irritating gases or vapors. Acids. Alkali. Amines.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

Polypropyleneglycol-epichlorohydrin copolymer

Inhalation: May irritate the respiratory tract.

Ingestion: This product has low toxicity. No harmful effects associated with quantities that can be accidentally ingested are expected.

Post-overexposure symptoms may include the following: Gastrointestinal symptoms, including stomach pain.

Skin contact: May cause an allergic skin reaction. Prolonged or repeated contact with the skin can cause irritation, redness and dermatitis. Prolonged contact causes severe tissue damage.

Eye contact: Causes serious eye irritation.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

1-chloro-2,3-epoxypropane

LD50 (Oral)

> 15000 mg/kg Ratto

LD50 (Dermal)

23000 mg/kg Coniglio

C12-C14-alkyl glycidyl ethers (Oxirane, mono [(C12-14-alkyloxy) methyl] derivs)

LD50 (Oral)

26800 mg/kg Ratto

BisphenolF diglycidylether

LD50 (Oral)

> 2000 mg/kg Ratto

LD50 (Dermal)

> 2000 mg/kg Coniglio

Polypropyleneglycol-epichlorohydrin copolymer

LD50 (Oral)

> 2000 mg/kg Rat

LD50 (Dermal)

> 2000 mg/kg Rabbit

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

**EPOTAR 40 COMP A - EPOTAR 40 COMP A****SECTION 11. Toxicological information ... / >>**

Causes serious eye irritation

**RESPIRATORY OR SKIN SENSITISATION**

Sensitising for the skin

Polypropyleneglycol-epichlorohydrin copolymer  
Guinea pig maximization test (GPMT) - Guinea pig: Sensitizing.

**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

Polypropyleneglycol-epichlorohydrin copolymer  
It can irritate the respiratory tract.

**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

**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 aquatic environment.

**12.1. Toxicity**

Polypropyleneglycol-epichlorohydrin copolymer  
Harmful to aquatic life with long lasting effects.

1-chloro-2,3-epoxypropane

|                                   |              |
|-----------------------------------|--------------|
| LC50 - for Fish                   | 2 mg/l/96h   |
| EC50 - for Crustacea              | 1,8 mg/l/48h |
| EC50 - for Algae / Aquatic Plants | 11 mg/l/72h  |

C12-C14-alkyl glycidyl ethers (Oxirane, mono [(C12-14-alkyloxy) methyl] derivs)

|   |                       |
|---|-----------------------|
| LC50 - for Fish                         | 1800 mg/l/96h         |
| EC50 - for Crustacea                    | 6,07 mg/l/48h Daphnie |
| Chronic NOEC for Algae / Aquatic Plants | 5 mg/l 72 h           |

BisphenolF diglycidylether

|                                   |                       |
|-----------------------------------|-----------------------|
| LC50 - for Fish                   | 2,54 mg/l/96h         |
| EC50 - for Crustacea              | 2,55 mg/l/48h Daphnie |
| EC50 - for Algae / Aquatic Plants | > 1 mg/l/72h          |

Polypropyleneglycol-epichlorohydrin copolymer

|                      |                                       |
|----------------------|---------------------------------------|
| LC50 - for Fish      | > 67 mg/l/96h Leuciscus idus          |
| EC50 - for Crustacea | > 90 mg/l/48h Daphnia magna, OECD 202 |

**12.2. Persistence and degradability**



**EPOTAR 40 COMP A - EPOTAR 40 COMP A****SECTION 12. Ecological information ... / >>**

Polypropyleneglycol-epichlorohydrin copolymer

Degradation 8 - 27%: 28 day OCED 301B

Degradation 7%: 28 day OECD 302B

C12-C14-alkyl glycidyl ethers (Oxirane, mono [(C12-14-alkyloxy) methyl] derivs)

Biodegradability: Rapidly degradable - Test: Oxygen consumption - Duration: 28d -%: 87 - Notes: OECD Guideline 301 F (Manometric Respirometry Test)

C12-C14-alkyl glycidyl ethers (Oxirane, mono [(C12-14-alkyloxy) methyl] derivs)

Rapidly degradable

Polypropyleneglycol-epichlorohydrin copolymer

NOT rapidly degradable

**12.3. Bioaccumulative potential**

C12-C14-alkyl glycidyl ethers (Oxirane, mono [(C12-14-alkyloxy) methyl] derivs)

Partition coefficient: n-octanol/water 3,77 Kow

BCF 160

BisphenolF diglycidylether

Partition coefficient: n-octanol/water 3 Kow

BCF 150

**12.4. Mobility in soil**

C12-C14-alkyl glycidyl ethers (Oxirane, mono [(C12-14-alkyloxy) methyl] derivs)

Non-mobile - Test: Koc - Partition coefficient 426850

**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  $\geq$  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, IATA: 3082

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

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: 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.

**EPOTAR 40 COMP A - EPOTAR 40 COMP A****SECTION 14. Transport information ... / >>****14.2. UN proper shipping name**

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. MIXTURE  
 IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. MIXTURE  
 IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. MIXTURE

**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, IATA: III

**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 provision:   | A97, A158, A197, A215   |                              |

**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

Product

Point 3 - 40

Contained substance

|       |    |   |
|-------|----|---|
| Point | 75 | Calcium Carbonate                             |
|       |    | Reg. no.: Esentato ai sensi dell'allegato V.7 |
| Point | 75 | Black iron oxide                              |
|       |    | Reg. no.: 01-2119457646-28-0015               |
| Point | 75 | Nafta solvente (petrolio), aromatica leggera  |

**EPOTAR 40 COMP A - EPOTAR 40 COMP A****SECTION 15. Regulatory information ... / >>**

Reg. no.: 01-2119455851-35-XXX

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  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.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**SECTION 16. Other information**

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

|                          |  |
|--------------------------|--|
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.  |
| <b>H335</b>              | May cause respiratory irritation.                                  |
| <b>H317</b>              | May cause an allergic skin reaction.                               |
| <b>H411</b>              | Toxic to aquatic life with long lasting effects.                   |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |
| <b>EUH205</b>            | Contains epoxy constituents. May produce an allergic reaction.     |

**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

**EPOTAR 40 COMP A - EPOTAR 40 COMP A****SECTION 16. Other information ... / >>**

- 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 (EC) 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
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Regulation (EU) 2020/217 (XIV Atp. CLP)

- 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.

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

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

**Changes to previous review:**

The following sections were modified:

09 / 14 / 15.