

**BBA - BI BOND COMPONENT A****Safety Data Sheet**

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

Code: **BBA**  
 Product name: **BI BOND COMPONENT A**  
 UFI: **XU33-V015-800R-T4SE**

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

Intended use: **Epoxy plaster component A**

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

Name: **VOLTECO S.p.A**  
 Full address: **via delle industrie 47**  
 District and Country: **31050 Ponzano Veneto (TV) Italia**  
 Tel.: **04229663**  
 e-mail address of the competent person responsible for the Safety Data Sheet: **volteco@volteco.it**

**1.4. Emergency telephone number**

For urgent inquiries refer to:

- +39 06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA - Roma - 00165)**
- +39 800183459 (Az. Osp. Univ. Foggia - Foggia - 71222)**
- +39 081 7472870 (Az. Osp. "A. Cardarelli" - Napoli - 80131)**
- +39 06 49978000 (CAV Policlinico "Umberto I" - Roma - 161)**
- +39 06 3054343 (CAV Policlinico "A. Gemelli" - Roma - 168)**
- +39 055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze - 50134)**
- +39 0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia - 27100)**
- +39 02 66101029 (Osp. Niguarda Ca' Granda - Milano - 20162)**
- +39 800883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo - 24127)**

**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 2020/878.

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:



**BBA - BI BOND COMPONENT 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.

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:** 2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane  
 oxirane, mono[(C12-14-  
 alkyloxy)methyl] derivatives  
 Reaction product Bisphenol F Epichlorohydrin  
 Epoxy resin (PM <=700)

**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%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

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

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane</b>		
INDEX 603-073-00-2	$35 \leq x < 40$	<b>Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411</b>
EC 216-823-5		<b>Skin Irrit. 2 H315: <math>\geq</math> 5%, Eye Irrit. 2 H319: <math>\geq</math> 5%</b>
CAS 1675-54-3		
REACH Reg. 01-01-2119456619-26		
<b>oxirane, mono[(C12-14-alkyloxy)methyl] derivatives</b>		
INDEX 603-103-00-4	$5 \leq x < 9$	<b>Skin Irrit. 2 H315, Skin Sens. 1 H317</b>
EC 271-846-8		
CAS 68609-97-2		
REACH Reg. 01-2119485289-22		
<b>Reaction product Bisphenol F Epichlorohydrin</b>		
<b>Epoxy resin (PM &lt;=700)</b>		
INDEX	$5 \leq x < 9$	<b>Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411</b>
EC		
CAS		

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

**BBA - BI BOND COMPONENT 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.

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane

Protection of first responders: No action shall be taken involving any personal risk or without appropriate training. Performing mouth-to-mouth resuscitation can be dangerous for the person providing help. Wash the contaminated clothing thoroughly with water before removing it, or use gloves.

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

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

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane

Potential acute health effects

Contact with eyes: causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Contact with skin: causes skin irritation. May cause a skin reaction.

Ingestion: No known significant effects or critical hazards.

Signs/Symptoms of overexposure

Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness pain or irritation watering redness

Inhalation: no specific data.

Skin contact: Adverse symptoms may include the following: irritation, redness

Ingestion: no specific data.

**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**

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. Use breathing equipment if powders are released into the air.

**6.2. Environmental precautions**

Avoid the formation of powder and dispersion of the product in the air.

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

**BBA - BI BOND COMPONENT A****SECTION 6. Accidental release measures ... / >>**

Collect the leaked product and place it in containers for recovery or disposal. Make sure the leakage site is well aired. It may be advisable to wash with water any surfaces contaminated with traces of dust, without contaminating waste water.

**6.4. Reference to other sections**

Notify the competent authorities if the product has reached waterways or if it has contaminated the ground or vegetation.

**SECTION 7. Handling and storage****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****2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane****Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,006	mg/l
Normal value in marine water	0,0006	mg/l
Normal value for fresh water sediment	0,341	mg/kg/d
Normal value for marine water sediment	0,0341	mg/kg/d
Normal value of STP microorganisms	10	mg/l

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

Route of exposure	Effects on consumers			Chronic systemic	Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local			Acute systemic	Chronic local	Chronic systemic
Oral				0,5				
Inhalation				0,87				4,93
				mg/kg bw/d				mg/m3
Skin				0,089				0,75
				mg/kg bw/d				mg/kg bw/d

**oxirane, mono[(C12-14-alkyloxy)methyl] derivatives****Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,105	mg/l
Normal value in marine water	0,0105	mg/l
Normal value for fresh water sediment	307,16	mg/kg/d
Normal value for marine water sediment	30,716	mg/kg/d
Normal value of STP microorganisms	10	mg/l

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

Route of exposure	Effects on consumers			Chronic systemic	Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local			Acute systemic	Chronic local	Chronic systemic
Oral				0,5				
Inhalation				0,87				3,6
				mg/kg bw/d				mg/m3
Skin				0,5				1,0
				mg/kg bw/d				mg/kg bw/d

**BBA - BI BOND COMPONENT A****SECTION 8. Exposure controls/personal protection ... / >>**

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

**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.

The following should be considered when choosing work glove material (see standard EN 374): 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.

**2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane**

Suitable engineering controls: no special ventilation is required. Good general ventilation should be sufficient to control workers' exposure to air pollutants. If this product contains ingredients with exposure limits, perform the process under containment conditions, use local exhaust ventilation or other control devices necessary to keep worker exposure below recommended or legally imposed limits.

**Individual protection measures**

Hygiene measures: before eating, smoking, using the bathroom and at the end of the work shift, wash your hands, arms and face thoroughly after touching chemical products. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing must not be taken out of the workplace. Wash the contaminated garments before reusing them.

Make sure that the emergency shower and eyewash are close to the place where the work is carried out.

Eye/face protection: Safety glasses complying with approved standards should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, sprays, gases or dusts. If contact is possible, use the following means of protection, unless the assessment indicates the need for a higher degree of protection: chemical resistant splash goggles.

**Skin protection**

Hand protection: Chemical resistant, impervious gloves complying with approved standards should always be used when handling chemicals if the risk assessment indicates this is necessary.

Considering the parameters specified by the glove manufacturer, check during use that the gloves still maintain their protective properties unaltered. Note that the breakthrough time for any glove material may vary depending on the glove manufacturer. of mixtures, composed of several substances, it is not possible to precisely estimate the protection time of the gloves.

Material: 730 Camatril

Minimum penetration time: 480 min

Material: 898 Butoject

Minimum penetration time: 480 min

Manufacturer: This recommendation is valid only for our

product in delivery conditions. If this product will come

mixed with other substances, you will need to contact a supplier

EC approved protective gloves (e.g. KCL GmbH, D36124 Eichenzell, Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de)).

Body protection equipment: personal protective equipment for the body must be chosen based on the risks foreseen for the task performed and approved by qualified personnel before their use for handling this product.

Other skin protection devices: choose appropriate footwear and any additional skin protection measures based on the activity being carried out and the risks involved. Such choices must be approved by a specialist before handling this product.

Respiratory Protection: Based on the hazard and potential for exposure, select a respirator that meets appropriate standards and certification.

**BBA - BI BOND COMPONENT A**

Respirators must be used according to a respiratory protection program to ensure correct sizing, training and other important aspects of use. Use a custom-made air-purifying or fresh air respirator complying with approved standards if a risk assessment indicates this is necessary. Respirator selection should be based on known or anticipated exposure levels, product risks, and safe operating limits of the selected respirator.

Environmental exposure controls: Emissions from ventilation equipment or work processes should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, it will be necessary to perform flue gas scrubbing, add filters or make engineering changes to process equipment to reduce emissions to acceptable levels

General protective measures: Glasses or visors to protect against splashes of chemical materials. Chemical resistant gloves. Suitable protective footwear. Light protective clothing. Eye drop bottle with pure water.

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

Properties	Value	Information
Appearance	paste	
Colour	various	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Dynamic viscosity	2000000 mPas	Temperature: 23 °C
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,55 - 1,65	g/cm <sup>3</sup>
Relative vapour density	not available	
Particle characteristics	not applicable	

**9.2. Other information**

## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

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.

**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.

**10.4. Conditions to avoid**

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

**BBA - BI BOND COMPONENT A****SECTION 10. Stability and reactivity** ... / >>**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 hazard classes as defined in Regulation (EC) No 1272/2008**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)

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane

LD50 (Dermal): 2000 mg/kg

LD50 (Oral): 2000 mg/kg

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

**BBA - BI BOND COMPONENT A****SECTION 11. Toxicological information ... / >>**

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

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**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**

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane	
EC50 - for Crustacea	1,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	9,4 mg/l/72h

oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	
LC50 - for Fish	100 mg/l/96h
EC50 - for Crustacea	7,2 mg/l/48h

**12.2. Persistence and degradability**

Information not available

**12.3. Bioaccumulative potential**

Information not available

**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  $\geq$  than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. 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.



**BBA - BI BOND COMPONENT A****SECTION 14. Transport information****14.1. UN number or ID 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.**14.2. UN proper shipping name**ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane;  
Reaction product Bisphenol F Epichlorohydrin  
Epoxy resin (PM  $\leq$ 700))IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane;  
Reaction product Bisphenol F Epichlorohydrin  
Epoxy resin (PM  $\leq$ 700))IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane;  
Reaction product Bisphenol F Epichlorohydrin  
Epoxy resin (PM  $\leq$ 700))**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  
Special provision: -

Limited Quantities: 5 L

Tunnel restriction code: (-)

IMDG: EMS: F-A, S-F

Limited Quantities: 5 L

Packaging instructions: 964

IATA: Cargo:

Maximum quantity: 450 L

Packaging instructions: 964

Passengers:

Maximum quantity: 450 L

Special provision:

A97, A158, A197, A215

**BBA - BI BOND COMPONENT A****SECTION 14. Transport information ... / >>****14.7. Maritime transport in bulk according to IMO instruments**

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/EU: E2Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006Product

Point 3

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicableSubstances 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 Regulation (EU) 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>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<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
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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%

**BBA - BI BOND COMPONENT A****SECTION 16. Other information ... / >>**

- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII 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.