



# VOLTECO Spa

## BI FIX A Component

Revision n. 1.0

Revision date 05/03/2021

Printed on 05/03/2021

Page nr. 1 / 9

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

#### 1.1 Product identifier

Name **BI FIX Component A**

#### 1.2. Identified relevant uses of the substance or mixture and non-recommended uses

Description/Use **Bi-component injection system for chemical anchor on construction materials**

UFI **2C00-Y05W-H00Y-9ACA**

#### 1.3. Supplier information of the safety data sheet

Company Name **VOLTECO Spa**  
Address **Via delle Industrie, 47**  
District and Country **31050 Ponzano Veneto (TV) - IT**  
Telephone **+39 0422 9663**  
Fax **+39 0422 966401**  
e-mail address of the person in charge of the safety data sheet **volteco@volteco.it**

#### 1.4. Emergency telephone number

For urgent enquiries, please contact **+39 0422 9663**

### SECTION 2. Hazards identification

#### 2.1 Classification of the substance or mixture

The product is classified as dangerous pursuant to the provisions stipulated in EC Regulation No. 1272/2008 (CLP) as amended. The product requires a safety data sheet that complies with the provisions of EC Regulation No. 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 data sheet.

##### 2.1.1 EC Regulation No. 1272/2008 as amended

#### Classification and hazard statements

#### 2.2 Label elements

Hazard labelling pursuant to EC Regulation No. 1272/2008 (CLP) as amended.

#### Hazard pictograms



Warnings **Attention: Irritant - Hazardous for the environment**

#### Hazard statements

H335 **May irritate the respiratory tract.**

H317 **May cause an allergic skin reaction.**

#### Precautionary tips

P101 **When seeking medical advice, provide the container or label of the product.**

P102 **Keep out of the reach of children.**

P280 **Wear protective gloves/clothing, protect eyes/face.**

P302+P352 **IN CASE OF SKIN CONTACT: wash with plenty of water and soap.**

P333+313 **In case of irritation or a rash, seek medical attention.**

P501 **Dispose of the product/recipient in compliance with the regulation in force.**

Contains **Ethylene dimethacrylate, Methacrylic acid, monoester with propane 1,2-diol**

#### 2.3 Other hazards

Based on available data, the product does not contain PBT or vPvB substances in percentages exceeding 0.1%.

### SECTION 3. Composition/information on ingredients

#### 3.1 Substance/Mixture



# VOLTECO Spa

Revision n. 1.0

Revision date 05/03/2021

## BI FIX A Component

Printed on 05/03/2021

Page nr. 2 / 9

Name Hazardous component	CAS	EC	%	INDEX	Classification
Ethylene dimethacrylate Reg. No 01-2119965172-38	97-90-5	202-617-2	11 <= C < 30	607-114-00-5	STOT SE H335, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: D
Methacrylic acid, monoester with propane 1,2-diol Reg.N°: 01-2119490226-37	27813-02-1	248-666-3	5 <= C < 11		Eye Irrit. 2, H319 Skin Sens.1, H317
1,1'- (p-tolylimino) dipropan-2-ol Reg.N°: 01-2119980937-17	38668-48-3	254-075-1	0 <= C < 1		Acute Tox. 2 H300, Eye Irrit. 2 H319, Aquatic Chronic 3 H412

The full wording of the Hazard statements (H) is given in Section 16 of the data sheet.

Quartz (SiO<sub>2</sub>) - CAS 14808-60-7 - C%: >= 50 - < 80:

The quartz contained in the product is classified as non-hazardous.

Furthermore, being linked to the other liquid / pasty components of the mixture, it is not freely available during use.

The final product has a pasty consistency and the limits of exposure to inhalable dusts are not relevant.

### SECTION 4. First aid measures

#### 4.1 Description of the first aid measures

<b>Contact with skin</b>	Remove contaminated clothing and shoes. Shower immediately. Seek medical attention.
<b>Contact with eyes</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Verify whether contact lenses are worn and if so, remove them. Continue to rinse for at least 30/60 minutes. Seek medical attention.
<b>Swallowing</b>	Have him/her drink as much water as possible. Do not induce vomiting unless directed by medical personnel. Seek immediate medical attention.
<b>Inhalation</b>	Immediately call a doctor. Move the victim to fresh air and keep at rest in a comfortable position for breathing. In case of shortness of breath, irregular breathing or respiratory arrest, have trained personnel apply artificial respiration or administer oxygen.

#### 4.2 Main symptoms and effects, both acute and delayed

There is no specific information on the symptoms and effects of the product.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Information not available.

### SECTION 5. Fire-fighting measures

#### 5.1 Extinguishing agents

<b>Suitable extinguishing agents</b>	Conventional extinguishing agents must be used: carbon dioxide, foam, powder and nebulised water.
<b>Unsuitable extinguishing agents</b>	None known.

#### 5.2 Risks from combustion

##### Hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN CASE OF FIRE

Avoid breathing combustion products.

#### 5.3 Recommendations for those in charge of putting out fires

<b>General information</b>	Cool by spraying the containers with water to prevent product decomposition and the development of substances that are a potential health hazard. Always wear full fire prevention gear. Collect extinguishing water that must not be released in the drains. Dispose of contaminated water used for extinguishing and the remains of the fire according to applicable regulations.
<b>Protective clothing</b>	Standard fire fighting clothing such as an open-circuit compressed air breathing apparatus (EN 137), flame retardant clothing (EN 469), flame retardant gloves (EN 659) and boots for firefighters (HO A29 or A30).

### SECTION 6. Accidental release measures

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



# VOLTECO Spa

Revision n. 1.0

Revision date 05/03/2021

## BI FIX A Component

Printed on 05/03/2021

Page nr. 3 / 9

Stop the leak if it is safe to do so.

Wear suitable protective equipment (including the personal protective equipment listed in Section 8 of the Safety Data Sheet) to prevent skin, eye and personal clothing contamination.

These statements apply for workmen and emergency interventions.

### 6.2 Environmental precautions

Prevent the product from entering the drains, surface water, ground water and confined areas.

### 6.3 Methods and materials for containment and cleaning up

Vacuum the spilled product into a suitable container.

Assess the compatibility of the container to be used with the product, by checking Section 10.

Absorb the remaining product with inert absorbent material.

Make sure there is adequate ventilation in the area affected by the leak.

Disposal of contaminated material must comply with the provisions stipulated in Point 13.

### 6.4 Reference to other sections

Refer to Chapter 8 for information on personal protective equipment.

Refer to Chapter 13 for information on disposal.

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

Handle the product after having consulted all of the other sections in this safety data sheet.

Do not release the product into the environment.

Do not eat, drink or smoke during use.

Remove contaminated clothing and protective equipment before accessing areas where you eat.

### 7.2 Conditions for safe storage, including any incompatibility

Store only in the closed original container.

Keep the recipients closed, in a well-ventilated area, away from direct sunlight.

Keep the containers away from any incompatible materials, checking Section 10.

Storage temperature: 5-30 °C

Keeping the containers closed when not used.

Do not smoke while handling.

Keep far away from sources of heat, naked flames and sparks and other sources of ignition.

Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity.

### 7.3 Specific end uses

Information not available.

## SECTION 8. Exposure control/personal protection

### 8.1 Control parameters

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

Name of product/ingredient	Type	Exposure level	Effects on health	Effects	Value	Population
Ethylene dimethacrylate	DNEL/DMEL	Oral	-	Chronic systemic	0.83 mg/kg bw/d	Consumers
	DNEL/DMEL	Inhalation	-	Chronic systemic	1.45 mg/m <sup>3</sup>	Consumers
	DNEL/DMEL	Dermal	-	Chronic systemic	0.83 mg/kg bw/d	Consumers
	DNEL/DMEL	Oral	-	Chronic systemic	-	Workers
	DNEL/DMEL	Inhalation	-	Chronic systemic	2.45 mg/m <sup>3</sup>	Workers
	DNEL/DMEL	Dermal	-	Chronic systemic	1.3 mg/kg bw/d	Workers
Methacrylic acid, monoester with propane 1,2-diol	DNEL/DMEL	Oral	-	Chronic systemic	2.5 mg/kg bw/d	Consumers
	DNEL/DMEL	Inhalation	-	Chronic systemic	8.8 mg/m <sup>3</sup>	Consumers
	DNEL/DMEL	Dermal	-	Chronic systemic	2.5 mg/kg bw/d	Consumers
	DNEL/DMEL	Oral	-	Chronic systemic	-	Workers
	DNEL/DMEL	Inhalation	-	Chronic systemic	14.7 mg/m <sup>3</sup>	Workers
	DNEL/DMEL	Dermal	-	Chronic systemic	4.2 mg/kg bw/d	Workers



# VOLTECO Spa

Revision n. 1.0

Revision date 05/03/2021

## BI FIX A Component

Printed on 05/03/2021

Page nr. 4 / 9

Name of product/ingredient	Type	Exposure level	Effects on health	Effects	Value	Population
1,1'- (p-tolylimino) dipropan-2-ol	DNEL/DMEL	Oral	-	Chronic systemic	0.25 mg/kg bw/d	Consumers
	DNEL/DMEL	Inhalation	-	Chronic systemic	-	Consumers
	DNEL/DMEL	Dermal	-	Chronic systemic	-	Consumers
	DNEL/DMEL	Oral	-	Chronic systemic	-	Workers
	DNEL/DMEL	Inhalation	-	Chronic systemic	2.47 mg/m <sup>3</sup>	Workers
	DNEL/DMEL	Dermal	-	Chronic systemic	0.7 mg/kg bw/d	Workers

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

Quartz (SiO<sub>2</sub>):

The quartz contained in the product is classified as non-hazardous.

Furthermore, being linked to the other liquid / pasty components of the mixture, it is not freely available during use.

The final product has a pasty consistency and the limits of exposure to inhalable dusts are not relevant.

### Predicted no effect concentration on the environment - PNEC

Name of product/ingredient	Type	Environmental detail	Value	Method detail
Ethylene dimethacrylate	PNEC	Freshwater	0.139 mg/l	
	PNEC	Sea water	0.014 mg/l	
	PNEC	Sediments in freshwater	1.6 mg/kg/d	
	PNEC	Sediments in salt water	0.16 mg/kg/d	
	PNEC	Water, Intermittent release	0.15 mg/l	
	PNEC	STP microorganisms	57 mg/l	
Methacrylic acid, monoester with propane 1,2-diol	PNEC	Terrestrial compartment	0.239 mg/kg/d	
	PNEC	Freshwater	0.9 mg/l	
	PNEC	Sea water	0.9 mg/l	
	PNEC	Sediments in freshwater	6.28 mg/kg/d	
	PNEC	Sediments in salt water	6.28 mg/kg/d	
	PNEC	Water, Intermittent release	0.97 mg/l	
1,1'- (p-tolylimino) dipropan-2-ol	PNEC	STP microorganisms	10 mg/l	
	PNEC	Terrestrial compartment	0.72 mg/kg/d	
	PNEC	Freshwater	0.017 mg/l	
	PNEC	Sea water	0.017 mg/l	
	PNEC	Sediments in freshwater	0.163 mg/kg/d	
	PNEC	Sediments in salt water	0.163 mg/kg/d	
	PNEC	Water, Intermittent release	0.17 mg/l	
	PNEC	STP microorganisms	0.199 mg/l	
	PNEC	Terrestrial compartment	0.0226 mg/kg/d	
	PNEC			

### 8.2 Exposure controls

Since adequate technical equipment must always be given priority over personal protective equipment, make sure that there is good ventilation in the workplace by means of effective local extraction.

If necessary, request advice from your chemical supplier to select personal protective equipment.

The personal protective equipment must bear the CE marking attesting its compliance with the standards in force.

Set up emergency shower with face and eye tub.

<b>Eyes/face protection</b>	It is recommended to wear protective airtight goggles (ref. Standard EN 166). Do not wear contact lenses.
<b>Skin protection</b>	Wear long-sleeved overalls and safety footwear for professional use category II (ref. Directive 89/686/EC and Standard EN 344). Wash with soap and water after removing protective clothing.
<b>Hand protection</b>	Protect your hands with Category III work gloves (ref. Standard EN 374). The following must be considered for the final selection of the glove material: compatibility, degradation, break-through time and permeation. In the case of preparations, the resistance of the work gloves against chemical agents must be verified before use as it can be unpredictable. The gloves have a wear time limit that depends on duration and mode of use.
<b>Respiratory protection</b>	If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present



# VOLTECO Spa

Revision n. 1.0

Revision date 05/03/2021

## BI FIX A Component

Printed on 05/03/2021

Page nr. 5 / 9

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 control

The emissions from the production processes, including those from the ventilation equipment, must be controlled, in observance of environmental protection regulations.

## SECTION 9. Physical and chemical properties

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

Description	Values
Physical state	Paste
Colour	Cream
Odour	Characteristic
Olfactory threshold	Not available
pH	Not available
Melting or freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Upper flammability limit	Not available
Lower flammability limit	Not available
Upper explosivity limit	Not available
Solubility in water	Not soluble in water
Density	1.60-1.80 kg/l
Relative density	Not available
Vapour density	Not available
Vapour pressure	Not available
Lower explosivity limit	Not available
Partition coefficient n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Oxidising properties	Not available
Explosive properties	Not available

### 9.2 Other information

No information.

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

There are no particular hazards of reaction with other substances under normal conditions of use.

### 10.2 Chemical stability

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

To avoid the exposure on the sunlight.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are expected under normal conditions of use and storage.

### 10.4 Conditions to be avoided

	<b>VOLTECO Spa</b>		Revision n. 1.0
			Revision date 05/03/2021
	<b>BI FIX</b> <b>A Component</b>		Printed on 05/03/2021
			Page nr. 6 / 9

None in particular.

Nonetheless, always observe the usual precautions that apply to chemical products.

#### 10.5 Incompatible materials

Information not available.

#### 10.6 Hazardous decomposition products

Information not available.

### SECTION 11. Toxicological information

In the absence of experimental toxicological data on the product, any dangers of the product for health have been assessed on the basis of the properties of the substances contained, according to the criteria laid down by the reference standards for classification. Therefore consider the concentration of any single hazardous substances mentioned in Section 3, to assess the toxicological effects deriving from exposure to the product.

#### 11.1 Information on toxicological effects

##### Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

##### Immediate, delayed and chronic effects deriving from long and short term exposure

Information not available.

##### Interactive effects

Information not available.

##### Acute toxicity:

LC50 (Inhalation/Vapours) of the mixture: Not classified (no relevant component)

LD50 (Oral) of the mixture: > 2000 mg/kg

LD50 (Skin) of the mixture: Not classified (no relevant component)

##### Ethylene dimethacrylate

LD50 (Oral): > 8700 mg/kg Rat

LD50 (Skin): > 2000 mg/kg Rat

##### Methacrylic acid, monoester with propane 1,2-diol

LD50 (Oral): > 2000 mg/kg Rat

LD50 (Skin): > 5000 mg/kg Rabbit

##### 1,1'-(p-tolylimino) dipropan-2-ol

LD50 (Oral): > 25 mg/kg Rat

LD50 (Skin): > 2000 mg/kg Rat

##### Skin corrosion/Skin irritation

It does not meet the classification criteria for this hazard class.

##### Serious eye damage/eye irritation

It does not meet the classification criteria for this hazard class.

##### Respiratory or skin sensitisation

Sensitising for the skin

##### Germ cell mutagenicity

It does not meet the classification criteria for this hazard class.

##### Carcinogenicity

It does not meet the classification criteria for this hazard class.

##### Toxic for reproduction

It does not meet the classification criteria for this hazard class.

##### Specific toxicity for target organs (STOT) - Single exposure

May irritate the respiratory tract.

##### Specific toxicity for target organs (STOT) - Repeated exposure

It does not meet the classification criteria for this hazard class.

##### Risk if inhaled

It does not meet the classification criteria for this hazard class.

### SECTION 12. Ecological information

#### 12.1 Ecotoxicity

As no specific data is available on the preparation, use according to good work practices, without releasing the product into the environment.

Do not contaminate soil and waterways.

Inform the competent authorities if the product has reached watercourses or sewers or has contaminated soil or vegetation.



# VOLTECO Spa

Revision n. 1.0

Revision date 05/03/2021

## BI FIX A Component

Printed on 05/03/2021

Page nr. 7 / 9

Adopt measures to reduce the effects on ground water to a minimum.

<b>Ethylene dimethacrylate</b>	LC50 - Fish	> 15.95 mg/l/96h
	EC50 - Crustacea	> 44.9 mg/l/48h
	EC50 - Algae - Aquatic plants	> 17.3 mg/l/72h
	NOEC Chronic Crustacea	> 7.22 mg/l
	NOEC Chronic Algae/Aquatic plants	> 6.93 mg/l
<b>Methacrylic acid, monoester with propane 1,2-diol</b>	LC50 - Fish	> 493 mg/l/96h
	EC50 - Crustacea	> 143 mg/l/48h
	EC50 - Algae - Aquatic plants	> 97.2 mg/l/72h
	NOEC Chronic Crustacea	> 45.2 mg/l
<b>1,1'-(p-tolylimino) dipropan-2-ol</b>	LC50 - Fish	> 17 mg/l/96h
	EC50 - Crustacea	> 28 mg/l/48h
	EC50 - Algae - Aquatic plants	> 245 mg/l/72h
	EC10 - Algae - Aquatic plants	> 57.8 mg/l/72h

### 12.2 Persistence and degradability

#### Ethylene dimethacrylate

Rapidly degradable.

#### Methacrylic acid, monoester with propane 1,2-diol

Rapidly degradable.

#### 1,1'-(p-tolylimino) dipropan-2-ol

Rapidly degradable.

### 12.3 Bioaccumulative potential

#### Ethylene dimethacrylate

Partition coefficient n-octanol/water - 2.4 Log Kow

#### 1,1'-(p-tolylimino) dipropan-2-ol

Partition coefficient n-octanol/water - 2.1 Log Kow

### 12.4 Mobility in the soil

#### 1,1'-(p-tolylimino) dipropan-2-ol

Soil/Water partition coefficient - 3,8 (OECD TG 121)

### 12.5 Results of the PBT and vPvB evaluation

Based on available data, the product does not contain PBT or vPvB substances in percentages exceeding 0.1%.

### 12.6 Other adverse effects

Information not available.

## SECTION 13. Disposal considerations

### Non-hardened material

The generation of waste should be avoided or minimised wherever possible.

Empty containers or liners may retain some product residue.

Dispose of the product and container with proper precaution.

Dispose of surplus and non-recyclable products via an authorised waste disposal contractor.

Disposal of this product and any by-products must always comply with the provisions of law concerning environmental protection and waste disposal and the requirements of any relative local authority.

Prevent the spilled material from dispersing, flowing into or coming in contact with the soil, waterways, drains and sewers.

European Waste Code: 08 04 09

GLUE AND SEALING MATERIALS WASTE CONTAINING ORGANIC SOLVENTS OR OTHER DANGEROUS SUBSTANCES

### Hardened material

Once hardened, the product becomes a special non-dangerous waste.

European Waste Code: 08 04 10

GLUE AND SEALING MATERIALS WASTE OR OTHER DANGEROUS SUBSTANCES, OTHER THAN CLASSIFIED UNDER 08 04 09.

### Unclean packaging

Empty cartridges that do not contain any traces of the product can be recycled.

Empty cartridges containing traces of product must be disposed of as special waste.

European Waste Code: 15 01 10\*

PACKAGING CONTAINING RESIDUES OF OR CONTAMINATED BY DANGEROUS SUBSTANCES





# VOLTECO Spa

## BI FIX A Component

Revision n. 1.0

Revision date 05/03/2021

Printed on 05/03/2021

Page nr. 8 / 9

### 13.1 Waste processing methods

Reuse, when possible. Product residues should be considered special hazardous waste.

The hazard level of waste containing this product must be evaluated according to applicable regulations.

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

### 13.2 Contaminated packaging

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

## SECTION 14. Transport information

The product is not classified as dangerous in accordance with the provisions in force concerning transport of dangerous goods by road (ADR) and by Rail (RID), by sea (IMDG Code) and by air (IATA).

-	ADR/RID - ADN/RID	IMDG	IATA
14.1 UN number	Not applicable.	Not applicable.	Not applicable.
14.2 UN Shipping name	Not applicable.	Not applicable.	Not applicable.
14.3 Hazard classes	Not applicable.	Not applicable.	Not applicable.
n. hazard	Not applicable.	Not applicable.	Not applicable.
14.4 Packaging groups	Not applicable.	Not applicable.	Not applicable.
14.5 Hazardous for the environment	Not applicable.	Not applicable.	Not applicable.
14.6 Special precautions	Not applicable.	Not applicable.	Not applicable.
Further information	Not applicable.	Not applicable.	Not applicable.
14.7 Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code	Non-relevant information.	Non-relevant information.	Non-relevant information.

## SECTION 15. Regulatory information

### 15.1 Specific standards and regulations on health, safety and environment for the substance or mixture

#### Seveso category - Directive 2012/18/EC

None

#### Restrictions relating to the product or substances contained in Annex XVII Regulation EC No. 1907/2006

Product Point 3

#### Substances in Candidate List (Art. 59 Reach)

Based on available data, the product does not contain SVHC substances in percentages exceeding 0.1%.

#### Substances subject to authorisation Annex XIV Regulation EC No. 1907/2006 (REACH)

None

#### Substances subject to export notification Regulation EC No. 649/2012

None

#### Substances subject to the Rotterdam Convention

None

#### Substances subject to the Stockholm Convention

None

#### Health controls

Workers exposed to this chemical, which is a health hazard, must undergo health checks for the health monitoring carried out in accordance with the provisions of Art. 41 of Legislative Decree 09/04/2008 No. 81 unless the hazard posed to the health and safety of the worker has been assessed as irrelevant, in accordance with Art. 224 Paragraph 2.

### 15.2 Chemical safety assessment

No chemical safety assessment has been conducted for the mixture and the substances contained in it.

## SECTION 16. Other information

Text of hazard (H) phrases mentioned in Sections 2-3 of the data sheet:

<b>Eye Irrit. 2</b>	Skin irritation, Category 2
<b>Skin Sens. 1</b>	Skin sensitisation - Category 1
<b>Acute Tox. 2</b>	Acute toxicity - Category 2
<b>STOT SE 3</b>	Specific toxicity for target organs - Single exposure, Category 3
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment - Chronic toxicity, Category 3
<b>H300</b>	Fatal if swallowed





# VOLTECO Spa

Revision n. 1.0

Revision date 05/03/2021

## BI FIX A Component

Printed on 05/03/2021

Page nr. 9 / 9

<b>H317</b>	May cause an allergic skin reaction
<b>H319</b>	Causes serious eye irritation
<b>H335</b>	May irritate the respiratory tract.
<b>H412</b>	Harmful to aquatic life with long-term effects.

### GENERAL BIBLIOGRAPHY:

- EC Regulation No. 1907/2006 of the European Parliament (REACH)
- EC Regulation No. 1272/2008 of the European Parliament (CLP)
- EU Regulation No. 790/2009 of the European Parliament (I Atp. CLP)
- EU Regulation No. 2015/830 of the European Parliament
- EU Regulation No. 286/2011 of the European Parliament (II Atp. CLP)
- EU Regulation No. 618/2012 of the European Parliament (III Atp. CLP)
- EU Regulation No. 487/2013 of the European Parliament (IV Atp. CLP)
- EU Regulation No. 944/2013 of the European Parliament (V Atp. CLP)
- EU Regulation No. 605/2014 of the European Parliament (VI Atp. CLP)
- EU Regulation No. 2015/1221 of the European Parliament (VII Atp. CLP)
- EU Regulation No. 2016/918 of the European Parliament (VIII Atp. CLP)
- EU Regulation No. 2016/1179 (IX Atp. CLP)
- EU Regulation No. 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety

### Abbreviations and acronyms

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service NUMBER
- CLP: Classification, Labelling, Packaging (EC Regulation No. 1272/2008)
- DNEL: Derived no effect level
- EINECS: European Inventory of existing Commercial Chemical substances
- GefStoffVO: Ordinance on hazardous substances in Germany
- GHS: Global harmonised system to classify and label Chemical products
- IATA: International Air transport Association
- IATA DGR: Regulations to transport Dangerous Goods of the International Air transport Association
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions of the "International Civil Aviation Organization"
- IMDG: International maritime code for transport of Dangerous Goods
- LC50: Lethal concentration for 50% of the test population
- LD50: Lethal dose for 50% of the test population
- LTE: Long-term exposure
- PNEC: Predicted no-effect concentration
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- STE: Short-time exposure
- STEL: Short-time exposure limit
- STOT: specific organ Toxicity
- TLV: occupational exposure threshold limit value
- TWA: 8-hour time-weighted average exposure limit
- OEL: EU occupational exposure limit value
- VLE: occupational exposure limit value
- WGK: water hazard class in Germany
- N.A.: Not applicable.
- N.D.: Not available

This safety data sheet was developed in compliance with Annex II - Guide to the compilation of Safety Data Sheets of EC Regulation No. 1907/2006 - EC Regulation No. 453/2010.

The information contained herein is based on our knowledge at the above date.

These refer solely to the indicated product and do not constitute a guarantee of particular quality.

The user is required to ensure the suitability and completeness of this information in relation to the specific intended use.

This sheet supersedes and replaces any previous edition.