

**BONDAN ST01 – Component A**

Revision date: 23.02.2021  
Version: 1.002



**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name BONDAN ST01 – Component A

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

General use Adhesive.

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

Drei Bond GmbH · Carl-Zeiss-Ring 13 · 85737 Ismaning  
t +49 (0)89 96 24 27-0 · f +49 (0)89 96 24 27-19  
Department responsible for information: [info@bondan.de](mailto:info@bondan.de) · t +49 89 962427-0

**1.4 Emergency telephone number**

Drei Bond GmbH	Tel. +49 (0)89 96 24 27-0
Carl-Zeiss-Ring 13	During office hours
85737 Ismaning	Mo – Do 9:00 am – 05:00 pm
	Fr 8:00 am – 3:00 pm

**2 Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to EC regulation 1272/2008 (CLP)

Physical hazards	Flam. Liq. 2 - H225
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards	Aquatic Chronic 3 - H412

## 2.2 Label elements

### Labelling CLP:



Signal word

**Danger**

### Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352a	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.



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**3 Composition/information on ingredients****3.2 Mixtures****Hazardous ingredients**

<b>Ingredient</b>	<b>Designation</b>	<b>Content</b>	<b>Classification</b>
CAS number: 80-62-6 EC number: 201-297-1 REACH registration number: 01-2119452498-28-XXXX	METHYL METHACRYLATE	60 - 100 %	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335
CAS number: 25068-38-6 EC number: 500-033-5 REACH registration number: 01-2119456619-26-XXXX	EPOXY RESIN (Number average MW <= 700)	5 - 10 %	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411
CAS number: 79-41-4 EC number: 201-204-4 REACH registration number: 01-2119463884-26-XXXX	METHACRYLIC ACID	1 - 5 %	Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
CAS number: 128-37-0 EC number: 204-881-4 REACH registration number: REACH registration exemption – < 1 tonne	2,6-DI-TERT-BUTYL- P-CRESOL	1 - 5 %	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410  M factor (acute) = 1 M factor (chronic) = 1
CAS number: 80-15-9 EC number: 201-254-7 REACH registration number: 01-2119475796-19-XXXX	CUMENE HYDROPEROXIDE	1 - < 2.5 %	Org. Perox. E - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT RE 2 - H373 Aquatic Chronic 2 - H411

The full text for all hazard statements is displayed in Section 16.

**4 First aid measures****4.1 Description of first aid measures****Inhalation**

Move the exposed person to fresh air. Get medical attention if any discomfort continues.

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Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Get medical attention.
4.2	Most important symptoms and effects, both acute and delayed
Skin contact	Skin irritation, mild dermatitis, allergic skin rash.
Eye contact	Irritating and may cause redness and pain.
4.3	Indication of any immediate medical attention and special treatment needed
Notes for the doctor	No specific recommendations. Treat symptomatically.
5	<b>Fire-fighting measures</b>
5.1	Extinguishing media
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2	Special hazards arising from the substance or mixture
Specific hazards	Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.
Hazardous combustion	Burning produces irritating, toxic and obnoxious fumes.



Products Carbon monoxide, carbon dioxide, and unknown hydrocarbons. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## 6 Accidental release measures

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

Personal precautions Eliminate all sources of ignition. Ensure adequate ventilation of the working area. Do not breathe vapour. Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2 Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

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

Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal.

### 6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Use in a well ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges.



7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a cool, well ventilated place. Keep container dry. Store in closed original container at temperatures between 2°C and 7°C.

7.3 Specific end use(s)

Adhesive

**8 Exposure controls/personal protection**

8.1 Control parameters

Occupational exposure limit values

METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m<sup>3</sup>

METHACRYLIC ACID

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 40 ppm 143 mg/m<sup>3</sup>

2,6-DI-TERT-BUTYL-P-CRESOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

**METHYL METHACRYLATE (CAS: 80-62-6)**

DNEL

Workers, Industry/Professional - Inhalation; Long term : 208 mg/m<sup>3</sup>

Workers, Industry/Professional - Dermal; Long term : 13.67 mg/kg/day

Workers, Industry/Professional - Inhalation; Short term : 416 mg/m<sup>3</sup>

PNEC

Workers, Industry/Professional - Water; Long term <0.94 mg/l



**EPOXY RESIN (Number average MW ≤ 700) (CAS: 25068-38-6)**

**DNEL**

Workers - Inhalation; Long term systemic effects: 12.25 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 8.33 mg/kg/day  
Workers - Inhalation; Short term systemic effects: 12.25 mg/m<sup>3</sup>  
Workers - Dermal; Short term systemic effects: 8.33 mg/kg/day

**PNEC**

- Fresh water; Long term 0.006 mg/l  
- Sediment (Freshwater); Long term 0.996 mg/l  
- Sediment (Marinewater); 0.0996 mg/l  
- STP; Long term 10 mg/l  
- Soil; Long term 0.196 mg/l  
- Marine water; 0.0006 mg/l  
- Water; 0.0018 mg/l

**METHACRYLIC ACID (CAS: 79-41-4)**

**DNEL**

Workers, Industry - Inhalation; Long term local effects: 88 mg/m<sup>3</sup>  
Workers, Industry - Dermal; Long term systemic effects: 4.25 mg/kg/day  
Workers, Industry - Inhalation; Long term systemic effects: 29.6 mg/m<sup>3</sup>

**PNEC**

Workers, Industry - Fresh water; 0.82 mg/l  
Workers, Industry - marine water; 0.82 mg/l  
Workers, Industry - STP; 10 mg/l  
Workers, Industry - Soil; 1.2 mg/kg

**CUMENE HYDROPEROXIDE (CAS: 80-15-9)**

**DNEL**

Workers - Inhalation; Long term systemic effects: 6 mg/m<sup>3</sup>

**PNEC**

Workers - Fresh water; 0.0031 mg/l  
Workers - marine water; 0.00031 mg/l  
Workers - Intermittent release; 0.031 mg/l  
Workers, Industry - Soil; 1.2 mg/kg  
Workers - STP; 0.35 mg/l

Workers - Sediment (Freshwater); 0.023 mg/kg

Workers - Sediment (Marinewater); 0.0023 mg/kg

Workers - Soil; 0.0029 mg/kg

**2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)**

**DNEL**

Workers - Inhalation; Long term systemic effects: 3.5 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 0.5 mg/kg/day

**8.2 Exposure controls**

**Protection equipment**



**Appropriate engineering controls**

Normal (mechanical) room ventilation should be adequate for small volumes. For higher volume activities, or if needed for worker comfort, local mechanical exhaust should be provided.

**Eye/face protection**

Use approved safety goggles or face shield. Personal eye protection should conform to EN 166.

**Hand protection**

It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.4$  mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.4$  mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information



about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection      Uniforms, coveralls, or a lab coat should be worn.

Hygiene measures      Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Wash promptly if skin becomes contaminated. Use of good industrial hygiene practices is required.

Respiratory protection      Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter, Type A (EN14387).

## 9      **Physical and chemical properties**

### 9.1      Information on basic physical and chemical properties

Appearance	paste
Colour	off-white
Odour	pungent, acrylic
Odour threshold	not available
pH	not relevant
Melting point	not available
Initial boiling point and range	≈ 100 °C
Flash point	11 °C
Evaporation rate	not available
Upper/lower flammability or explosive limits	not available
Vapour pressure	≈ 28 mm Hg
Vapour density	≈ 3.46
Relative density	1.0
Solubility(ies)	Slightly soluble in water. Soluble in the following materials: Organic solvents.



Auto-ignition temperature	not available
Viscosity	≈ 45.000 mPa·s @ 23°C, thixotropic
Oxidising properties	not available

## **10 Stability and reactivity**

### **10.1 Reactivity**

The following materials may react with the product: Strong oxidising agents, strong acids, strong alkalis

### **10.2 Chemical stability**

Stable at normal ambient temperatures.

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

Under normal conditions of storage and use, no hazardous reactions will occur.

### **10.4 Conditions to avoid**

Take precautionary measures against static discharges. Avoid heat, flames and other sources of ignition.

### **10.5 Incompatible materials**

strong oxidising agents, strong acids, strong alkalis

### **10.6 Hazardous decomposition products**

Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

## **11 Toxicological information**

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

Toxicological effects	The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC.
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Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Skin sensitisation

Skin sensitization

May cause sensitisation by skin contact.

Aspiration hazard

Aspiration hazard

None under normal conditions.

Inhalation

May cause respiratory system irritation.

Skin contact

Irritating to skin.

Eye contact

Causes serious eye damage.

Toxicological effects on ingredients**METHYL METHACRYLATE**Acute toxicity - oral

Acute toxicity oral (LD <sub>50</sub> mg/kg)	5,000.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD <sub>50</sub> mg/kg)	5,000.0
Species	Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC <sub>50</sub> vapours mg/l)	29.8
Species	Rat

Skin corrosion/irritation

Skin corrosion/irritation

Not irritating. Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation

Serious eye damage/irritation

not irritating

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Respiratory sensitisation

Respiratory sensitisation

Mouse: Sensitising

Skin sensitisation

Skin sensitisation

Local Lymph Node Assay (LLNA) - Mouse: Sensitising

Germ cell mutagenicity

Genotoxicity - in vitro

inconclusive

Genotoxicity - in vivo

This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity

CMR: no

IARC carcinogenicity

IARC Group 3: Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility

No evidence of reproductive toxicity in animal studies.

Reproductive toxicity -  
developmentNo evidence of reproductive toxicity in animal studies.  
non-teratogenic, not embryotoxicSpecific target organ toxicity - single exposure

STOT - single exposure

respiratory tract Irritation

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

No specific target organs known.

Aspiration hazard

Aspiration hazard

Based on available data the classification criteria are not met.

**EPOXY RESIN (Number average MW ≤ 700)**Acute toxicity - oralAcute toxicity oral (LD<sub>50</sub> mg/kg)

11,400.0

Species

Rat

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Acute toxicity - dermalAcute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.1

Species Rabbit

Acute toxicity - inhalationNotes (inhalation LC<sub>50</sub>) No specific test data are available.Skin corrosion/irritation

Skin corrosion/irritation not irritating

## Animal data

Oedema score: Very slight oedema - barely perceptible (1).

Serious eye damage/irritation

Serious eye damage/irritation not irritating

Respiratory sensitisation

Respiratory sensitisation No specific test data are available.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising

Germ cell mutagenicity

Genotoxicity - in vitro Conclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity Conclusive data but not sufficient for classification.

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 750 mg/kg/day, Oral, Rat

Reproductive toxicity -  
developmentDevelopmental toxicity: - NOAEL: 180 mg/kg/day,  
Oral, RatSpecific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Conclusive data but not sufficient for classification.

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Aspiration hazard

Aspiration hazard

Based on available data the classification criteria are not met.

**METHACRYLIC ACID**Acute toxicity - oralAcute toxicity oral (LD<sub>50</sub> mg/kg)

1,320.0

Species

Rat

Acute toxicity - dermalAcute toxicity dermal (LD<sub>50</sub> mg/kg)

1,000.0

Species

Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

7.1

(LC<sub>50</sub> vapours mg/l)

Species

Rat

Skin corrosion/irritation

Animal data

Dose: Method: OECD 404, 3 minutes, Rabbit: Corrosive

Serious eye damage/irritation

Serious eye damage/irritation

Method: OECD 405, Rabbit: Corrosive

Respiratory sensitisation

Respiratory sensitisation

Guinea pig: Not sensitising. Method: various test systems

Skin sensitisation

Skin sensitisation

Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity

CMR: no

Reproductive toxicity

Reproductive toxicity - fertility

No evidence of reproductive toxicity in animal studies.

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Reproductive toxicity - non-teratogenic, not embryotoxic  
development

Specific target organ toxicity - single exposure

STOT - single exposure respiratory tract Irritation

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No specific target organs known.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

**CUMENE HYDROPEROXIDE**Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 328.0  
Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 1,200.0  
Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation 1.37  
(LC<sub>50</sub> dust/mist mg/l)  
Species Rat

Skin corrosion/irritation

Animal data highly irritating

Serious eye damage/irritation

Serious eye damage/irritation irritating to eyes

Skin sensitisation

Skin sensitisation not sensitising

Germ cell mutagenicity

Genotoxicity - in vitro positive

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Genotoxicity - in vivo                      This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity                              CMR: no

Reproductive toxicity

Reproductive toxicity - fertility              No specific test data are available.

Reproductive toxicity - development              Developmental toxicity: - NOAEL:  $\geq 100$  mg/kg/day, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure                      No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure                      Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Aspiration hazard

Aspiration hazard                              No specific test data are available.

**2,6-DI-TERT-BUTYL-P-CRESOL**Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg)              6,000.0  
Species    Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg)              2,000.1  
Species    Rat

Skin corrosion/irritation

Animal data                                      Erythema/eschar score: No erythema (0); Not irritating

Serious eye damage/irritation

Serious eye damage/irritation                      Method: OECD 405, Rabbit Not irritating

Skin sensitisation

Skin sensitisation                              - Guinea pig: Not sensitising

Germ cell mutagenicity

Genotoxicity - in vitro

Gene mutation: Negative

Genotoxicity - in vivo

Chromosome aberration: Negative

Carcinogenicity

Carcinogenicity

No evidence of carcinogenicity in animal studies.

IARC carcinogenicity

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility

Two-generation study - NOAEL 100 mg/kg/day, Oral, Rat F1

Reproductive toxicity - development

Developmental toxicity: - LOAEL: 500 mg/kg/day, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure

no information available

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

no information available

Aspiration hazard

Aspiration hazard

no information available

**12 Ecological information**

Ecotoxicity

Harmful to aquatic life with long lasting effects.

**12.1 Toxicity**

Toxicity

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Ecological information on ingredients**METHYL METHACRYLATE**Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: > 79 mg/l, Oncorhynchus mykiss (Rainbow trout)
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Acute toxicity - aquatic Invertebrates	EC <sub>50</sub> , 48 hours: 69 mg/l, Daphnia magna
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Acute toxicity - aquatic plants	NOEC, 72 hours: > 110 mg/l, Selenastrum capricornutum EC <sub>50</sub> , 72 hours: > 100 mg/l, Selenastrum capricornutum
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Acute toxicity - microorganisms	EC <sub>20</sub> , 30 minutes: 150 - 200 mg/l, Activated sludge
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Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEC, 35 days: 9.4 mg/l, Danio rerio (Zebrafish)
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Chronic toxicity - aquatic Invertebrates	NOEC, 21 days: 37 mg/l, Daphnia magna
--	---------------------------------------

**EPOXY RESIN (Number average MW <= 700)**Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 24 hours: 4.4 mg/l, Oncorhynchus mykiss (Rainbow trout)
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Acute toxicity - aquatic Invertebrates	LC <sub>50</sub> , 24 hours: 4.9 mg/l, Daphnia magna
--	--

Acute toxicity - aquatic plants	EC <sub>50</sub> , 48 hours: 9.1 mg/l, Selenastrum capricornutum
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Acute toxicity - microorganisms	IC <sub>50</sub> , 3 hours: > 100 mg/l, Activated sludge
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Chronic aquatic toxicity

Chronic toxicity - aquatic Invertebrates	NOEC, 21 days: 0.3 mg/l, Daphnia magna
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**METHACRYLIC ACID**Acute aquatic toxicity

Acute toxicity - fish

LC<sub>50</sub>, 96 hours: 85 mg/l, Oncorhynchus mykiss (Rainbow trout)Acute toxicity - aquatic  
InvertebratesEC<sub>50</sub>, 48 hours: > 130 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC<sub>50</sub>, 72 hours: 45 mg/l, Selenastrum capricornutum  
LOEC, 72 hours: 45 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms

EC<sub>50</sub>, 17 hours: 270 mg/l, Pseudomonas putidaChronic aquatic toxicityChronic toxicity - fish early  
life stage

NOEC, 35 days: 10 mg/l, Danio rerio (Zebrafish)

Chronic toxicity - aquatic  
Invertebrates

NOEC, 21 days: 53 mg/l, Daphnia magna

**CUMENE HYDROPEROXIDE**Acute aquatic toxicity

Acute toxicity - fish

LC<sub>50</sub>, 96 hour: 3.9 mg/l, Oncorhynchus mykiss (Rainbow trout)**2,6-DI-TERT-BUTYL-P-CRESOL**Acute aquatic toxicityLE(C)<sub>50</sub>0.1 < L(E)C<sub>50</sub> ≤ 1

M factor (acute)

1

Acute toxicity - fish

LC<sub>50</sub>, 96 hours: 0.199 mg/l, FishAcute toxicity - aquatic  
InvertebratesEC<sub>50</sub>, 48 hours: 0.48 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC<sub>50</sub>, 96 hours: 0.758 mg/l, Algae

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Chronic aquatic toxicity

M factor (chronic) 1

## 12.2. Persistence and degradability

The product is not readily biodegradable.

Ecological information on ingredients**METHYL METHACRYLATE**

Biodegradation Water - Degradation 94%: 14 days

**EPOXY RESIN (Number average MW <= 700)**

Biodegradation Water - 6 - 12%: 28 days

**METHACRYLIC ACID**

Biodegradation Water - Degradation 86%: 28 days

**CUMENE HYDROPEROXIDE**

Biodegradation The substance is readily biodegradable.

## 12.3 Bioaccumulative potential

Bioaccumulative potential There is no data available on bioaccumulation.

Ecological information on ingredients**EPOXY RESIN (Number average MW <= 700)**

Bioaccumulative potential BCF: 100 – 3000

Partition coefficient log Pow: 3.242

**2,6-DI-TERT-BUTYL-P-CRESOL**

Partition coefficient log Pow: 5.1



#### 12.4 Mobility in soil

There is no data available. The product has poor water-solubility.

#### Ecological information on ingredients

##### **EPOXY RESIN (Number average MW ≤ 700)**

Adsorption/desorption  
coefficient

Water - log K<sub>oc</sub>: 2.65 @ 20°C

#### 12.5 Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6 Other adverse effects

none known

### **13 Disposal considerations**

#### 13.1 Waste treatment methods

General information

Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

Disposal methods

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Waste class

08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances.

### **14 Transport information**

#### 14.1 UN number

1993

14.2 UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (contains Methylmethacrylate)

14.3 Transport hazard class(es)

3

Transport labels



14.4 Packing group

II

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant: no

14.6 Special precautions for user

EmS F-E, S-E

Tunnel restriction code (D/E)

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable



## **15 Regulatory information**

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

#### National regulations

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

#### EU legislation Regulation (EC)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### Guidance

Workplace Exposure Limits EH40.

CHIP for everyone HSG228.

Safety Data Sheets for Substances and Preparations.

Approved Classification and Labelling Guide (Sixth edition) L131.

### **15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out.

## **16 Other information**

Revision date: 23.02.2021

Supersedes date: 19.03.2020

### **Wording of the hazard statements under paragraph 2 and 3:**

H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.



H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Department issuing data sheet:**

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

*(The data on the hazardous ingredients were taken from the most recent safety data sheet from the supplier.)*