

**1. Product****Product Name:****Acid free Bonder****2. Hazards Identification****2.1. Classification of the substance or mixture**

**Classification under CLP:** Flam. Liq 2, H225 / Eye Irrit. 2, H319 / Skin Sens. 1, H317 / STOT SE 3, H336 (narcotic effects) / Aquatic Chronic 3, H412

This product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity:** Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9.5%

**Ingredients of unknown ecotoxicity:** Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 9.5%

See section 16 for the full text of the R phrases or H statements declared above. See section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements****Hazard Pictograms:**

GHS02: Flam

GHS07: Exclamation Mark

**Hazard statements:**

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness

H412: Harmful to aquatic life with long lasting effects.

**Signal words:**

Danger

**Precautionary statements:**

P102: Keep out of reach of children

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

P303+361+353: IF ON SKIN (or hair); Remove immediately all contaminated clothing. Rinse skin with.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see on this label)

P370+378: In case of fire: Use alcohol-resistant foam for extinction.

### 2.3 Other hazards

**PBT:** This product is not identified as a PBT substance

## 3. Composition / Information on Ingredients

### 3.2 Mixtures

#### Hazardous Ingredients:

Ethyl Acetate

EINECS	CAS	CLP Classification	Percent
205-500-4	141-78-6	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE3: H336; Skin Irrit. 2: H315; Skin Sens. 1 : H319	75-100%

Urethane Acrylate Oligomer

EINECS	CAS	CLP Classification	Percent
N/E	Exempt	Skin Irrit. 2, H315; Eye Irrit. 2, H319 ; Skin Sens. 1a, H317	10-25%

## 4. First Aid Measures

### 4.1. Description of first aid measures

**Skin contact:** Immediately flush skin with plenty of water.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** If swallowed, do NOT induced vomiting. Have victim drink 8-10 ounces of water to dilute material in stomach. Get medical attention immediately. Never give anything by mouth to an unconscious person.

**Eye Contact:** In case of contact, Immediately wash the eyes with plenty of water for at least 15 min. holding the eye open. Obtain medical attention urgently.



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### 4.2 Most important symptoms and effects, both acute and delayed

<b>Skin contact:</b>	Defatting to the skin. May cause skin dryness and irritation. May cause sensitisation by skin contact.
<b>Eye contact:</b>	Irritating to eyes.
<b>Ingestion:</b>	No known significant effects or critical hazards.
<b>Inhalation:</b>	Vapours may cause drowsiness and dizziness.

## 5. Fire Fighting Measures

### 5.1. Extinguishing media

**Extinguishing media:** use dry chemical CO<sub>2</sub>, water spray (fog) or foam.

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

**Exposure hazards:** Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## 6. Accidental Release Measures

### 6.1. Step to be taken in case material is released or spilled

Remove all sources of ignition and ventilate area. Wear appropriate safety equipment as listed in Section 8. Absorb on inert material, then place in a chemical waste container. After removal, flush contaminated area with water and collect for disposal. Clean up spills immediately. Obey relevant local, state, and federal law regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Dispose and report per regulatory requirements if necessary. Please prevent washings from entering waterways.

## 7. Handling and Storage

### 7.1. Precautions for safe handling

**Handling requirements:** Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Store in well-ventilated area. Use explosion-proof equipment. Wash thoroughly after handling. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

**Other Precautions:** Avoid ignition sources or excessive temperatures. Heat can induce polymerization with rapid release of energy. Closed containers may rupture explosively. Spontaneous polymerization may occur with prolonged aging.

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

**Storage conditions:** Store between the following temperatures: 13 to 27C. Store in accordance with local regulations. Store in a segregated and approved area. Store in cool, well ventilated, dry area. Keep container tightly closed. Maintain air space inside storage containers.

## 8. Exposure Controls / Personal Protection

### 8.1. Control parameters

**Workplace exposure limits:** Not applicable.

### 8.2. Exposure controls

**Engineering measures:** Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure. Use explosion-proof ventilation equipment.

**Respiratory protection:** Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and handling unless air monitoring demonstrates vapour/mist levels below applicable limits. Follow respirator manufacturer's recommendations for selection and use.

**Ventilation:** Sufficient ventilation must be provided to maintain airborne concentrations below TLV, PEL and LEL limits as listed in Section 8.

**Hand protection:** Chemical resistant protective gloves should be worn when handling this product. Check with glove manufacturer to determine proper glove type.

**Eye protection:** Splash-proof chemical goggles should be worn

**Skin protection:** Impervious clothing and boots should be worn. Eye bath and safety shower should be provided.



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### Hygienic practices:

Good personal hygiene practices are required at all times when handling chemicals. These practices include, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and especially if contamination occurs.

## 9. Physical and Chemical Properties

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

Form:	Liquid
Colour:	Colourless
Odour:	Ester
Boiling Point:	Not available
Octanol/Water Partitioning Coefficient:	n.a.
Viscosity:	Dynamic (room temperature) : 15 mPa-s
Vapour Pressure :	Not available
Relative Density :	0,94 g/ml
Flash Point:	Closed cup: -3.3C
Flammable Limits% lower:	0.04%
pH:	N/A
VOC g/l:	665
Auto-ignition C:	750 to 900C
Melting point/rance C:	Not available.

## 10. Stability and Reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

**Conditions to avoid:** Sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

#### 10.5. Incompatible materials

**Materials to avoid:** Highly reactive or incompatible with the following materials: oxidizing materials.

#### 10.6. Hazardous decomposition products

**Haz. decomp. Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11. Toxicological Information

#### 11.1. Information on toxicological effects

Ethyl Methacrylate

RAT	LD50	5620	Mg/kg
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2-Hydroxyethyl Methacrylate

RAT	LD50	5050	Mg/kg
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### 12. Ecological Information

Any reject of this product in the sewer or stream must be avoided.

### 13. Disposal Considerations

Incinerate in a furnace where permitted under national and local regulations.

### 14. Transport Information

#### 14.1 UN Number

**UN number ADR/IATA:** UN1993

#### 14.2: UN proper shipping name

**Shipping name ADR/IATA:** Flammable liquid, N.O.S. (ethyl acetate)

#### 14.3 Transport hazard class(es)

**Transport Class ADR/IATA:** 3

#### 14.4: Packing group

**Packing group ADR/IATA:** II

#### 14.5 Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** No



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### 14.6 Special precautions for user

Tunnel code: D/E

Transport category: 2

## 15. Regulatory Information

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

#### EU Regulation (EC) NO. 1907/2006 (REACH):

Annex XVII: Not applicable

#### Other EU Regulations:

Europe Inventory: All components are listed or exempted.