

SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product name:** VELSTONE ADHESIVE  
**Supplier:** Velstone International Ltd.  
Monaghan Road, Castleblayney  
Co. Monaghan  
Ireland  
**Emergency telephone number:** +353 (0)42 9746542  
**Fax No:** +353 (0)42 9740865

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

Chemical Name	CAS-No	EEC-No	Class	Weight %
METHYL METHACRYLATE	80-62-6	607-035-00-6 F; R11 Xi; R37/38 R43		60-70

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3. HAZARDS IDENTIFICATION

**Most important hazards:** Highly flammable, Irritating to respiratory system and skin, irritation of mucous membranes.

**Specific hazards:** Inhalation of high vapour concentrations can cause CNS-depression and narcosis, May cause sensitization by skin contact.

Code no: 4-5 (1993)

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4. FIRST AID MEASURES

**General advice:** Avoid contact with skin and eyes, Do not breath vapours or spray mist.  
**Inhalation:** Move to fresh air, Consult a physician after significant exposure.  
**Skin contact:** Remove immediately adhering matter, Wash off immediately with soap and plenty of water, If skin irritation persists, call a physician.  
**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**Ingestion:** Do not induce vomiting, Drink plenty of water, Call a physician immediately.

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5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Water spray, Carbon Dioxide (CO<sub>2</sub>), dry chemical.

**Extinguishing media which must not be used for safety reasons:**

**Specific hazards:** Do not use a solid water stream as it may scatter and spread fire, In case of fire and/or explosion do not breathe fumes, Flash back possible over considerable distance, Polymerization can occur. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

**Special protective equipment for firefighters:** Cool containers / tanks with water spray, If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. In case of fire, wear a self contained breathing apparatus.

**Specific methods:** Standard procedure for chemical fires

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6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid contact with skin and eyes, Ensure adequate ventilation. Remove all sources of ignition.

**Environmental precautions:** Avoid subsoil penetration, Do not let product enter drains.

**Methods for cleaning up:** Dam up, Scrape up, Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Product name: VELSTONE ADHESIVE

## 7. HANDLING AND STORAGE

**Handling:** Use only in area provided with appropriate exhaust ventilation, To avoid ignition of vapors by static electricity discharge, all metal parts of the equipments must be grounded. Do not smoke.

**Storage:** Keep containers tightly closed in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Chemical Name:** National occupational exposure limits:

METHYL METHACRYLATE	208mg/m <sup>3</sup>
<b>Engineering measures to reduce exposure</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>- Respiratory protection:</b>	In case of insufficient ventilation wear suitable respiratory equipment.
<b>- Hand protection:</b>	solvent-resistant gloves.
<b>- Eye protection:</b>	safety glasses, goggles.
<b>- Skin and body protection:</b>	Wear as appropriate.
<b>Hygiene measures:</b>	Keep away from food, drink and animal feeding stuffs, Wash hands and face before breaks and immediately after handling the product, Regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** viscous liquid.      **Colour:** clear      **Odour:** pungent.

<b>pH:</b> ( 50 g/l H <sub>2</sub> O)	N/D	( 20 °C)
<b>Boiling point/range:</b>	100.5	°C
<b>Flash point:</b>	10	°C
<b>Melting point/range</b>	-47.7	°C
<b>Explosion limits:</b>	- lower 2.1	vol. % - upper 12.5 vol. %
<b>Vapour pressure:</b>	28	mm Hg ( 20 °C)
<b>Relative density:</b>	-lower .93	( 20 °C)
<b>Water solubility</b>	1.6 wt %	

## 10. STABILITY AND REACTIVITY

**Stability:** Stable, Polymerization can occur.

**Conditions to avoid:** Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation. Heating can release vapours which can be ignited.

**Materials to avoid:** oxidizing agents, reducing agents, acids and bases.

**Hazardous decomposition products:** Carbon monoxide, carbon oxides, fumes, smoke.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Effects of breathing high concentrations of vapour may include: bloody urine, damages Central nervous system, Lungs, Eye irritation.

**Local effects:** dermatitis, irritating to skin and mucous membranes.

**Sensitization:** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Long term toxicity:** Methyl methacrylate monomer: LD50/oral/rat = 7872mg/kg LD50/dermal/rabbit = >5,000mg/kg LC50/inhalation/4h/rat = 7093ppm

Prolonged or repeated exposure may cause injuries to liver, kidneys, lungs, nerves and hereditary factors.

## 12. ECOLOGICAL INFORMATION

**Mobility:** Biochemical oxygen demand within 5 days (BOD<sub>5</sub>) = 0.14g/g - 0.90 g/g;

Theoretical oxygen demand (ThOD) = 1.92g/g

**Bioaccumulation:** LC50/96h/Fathead minnows = 150 ppm, LC50/96h/bluegill sunfish = 232ppm.

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**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** In accordance with local and national regulations  
**Contaminated packaging:** In accordance with local and national regulations  
**European Waste Catalogue No.** 08 04 09

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**14. TRANSPORT INFORMATION**

<b>Proper shipping name:</b>	Adhesives	
<b>UN-No:</b>	1133	
<b>ADR/RID Class:</b>	3	
		<b>HI/UN No:</b> 1133
<b>IMO Class:</b>	3	<b>Packing group :</b> II
<b>Proper shipping name:</b>	Adhesives	
<b>ICAO Class:</b>	3	<b>UN/ID No:</b> 1133
<b>Proper shipping name</b>	Adhesives	

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**15. REGULATORY INFORMATION**

Classification according to European directive on classification of hazardous preparations 93/21/EEC

- Contains: METHYL METHACRYLATE

- Symbol(s):



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Xi - Irritant

**R -phrase(s):** R43 - May cause sensitization by skin contact. R37/38 - Irritating to respiratory system and skin.  
**S -phrase(s):** S 9 - Keep container in a well-ventilated place. S15 - Keep away from heat.. S16 - Keep away from sources of ignition - No smoking. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29 - Do not empty into drains. S33 - Take precautionary measures against static discharges.S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Code no: 4-5 (1993)  
VBF: AI

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**16. OTHER INFORMATION**

**Recommended use:** Adhesives.

**Recommended restrictions:**

When used in a mixture, read the labels and safety data sheets of all components. All metal parts of the mixing and processing equipment must be earthed.

**Revision Date:** 21/07/2003

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication