

# Material Safety Data Sheet

## BLUE OX™ M 300

### ADHESIVE



TELEPHONE 715-832-4557

#### 1. Product Information

**Product Name** M300  
**CAS Number** 80-62-6  
**EINECS Number** 201-297-1  
**Index Number** 607-035-00-6  
**Product Code** M300  
**Synonyms** METHACRYLIC ACID METHYL ESTER  
**Company Name** Adhesive R&D, 3013 Mondovi Rd., Eau Claire, WI 54701, Phone: 715-832-4557, Fax: 715-832-0548

#### 2. Hazardous Ingredients

<u>Ingredients</u>	<u>CAS#</u>	<u>EINECS</u>	<u>Percent</u>	<u>F</u>	<u>XI</u>	<u>Sens.</u>
2-HYDROXYETHYL METHACRYLATE	868-77-9	212-782-2	1-10%		R36/38	R43
METHYL METHACRYLATE	80-62-6	201-297-1	30-50%	R11	R37/38	R43

#### 3. Physical and Chemical Properties

**Physical State** Liquid  
**Color** Colorless  
**Odor** Characteristic odor  
**Evaporation Rate** Slow  
**Oxidizing** Non-Oxidizing (by EC criteria)  
**Solubility in Water** Slightly soluble  
**Also Soluble in** Most organic solvents  
**Viscosity** Highly viscous  
**Boiling Point/Range°C** 100.5°C  
**Melting Point/Range°C** -48°C  
**Flammability Limits %**  
**Lower** 2.1  
**Upper** 12.5  
**Flash Point°C** 11.5°C  
**Autoflammability°C** 421°C  
**Vapor Pressure** 28mm@20°C  
**Relative Density** 0.949

#### 4. Hazards Identification

**Main hazards** Highly flammable. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.  
**Other hazards** In use, may form flammable/explosive Vapor-air mixture.

#### 5. Health Hazards Data

**Effects of Over Exposure** **Acute**  
**Eyes** There may be irritation and redness.  
**Skin** There may be irritation and redness at the site of contact.  
**Ingestion** Nausea and stomach pain may occur. There may be vomiting.  
**Inhalation** There may be shortness of breath with a burning sensation in the throat. Drowsiness or mental confusion may occur.

#### 6. First Aid Procedures

**Eye Contact** Flush immediately with clean, lukewarm water (low pressure) for at least 15 minutes while holding eye lids open. Obtain medical attention immediately.  
**Skin Contact** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.  
**Inhalation** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.  
**Ingestion** Do not induce vomiting. If conscious, give half a liter of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

## 7. Fire-Fighting Measures

<b>Extinguishing Media</b>	Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder.
<b>Exposure Hazards</b>	Highly flammable. Vapor may travel considerable distance to source of ignition and flash back. Forms explosive air-vapor mixture.
<b>Protection of Fire-Fighters</b>	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## 8. Accidental Release Measures

<b>Personal Precautions</b>	Refer to section 10 of MSDS for personal protection details. Eliminate all sources of ignition.
<b>Environmental Precautions</b>	Do not discharge into drains or rivers. Contain the spillage using bunding.
<b>Clean-up Procedures</b>	Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

## 9. Handling and Storage

<b>Handling Requirements</b>	Ensure there is sufficient ventilation of the area. Earth any equipment used in handling. Avoid direct contact with the substance. Smoking is forbidden.
<b>Storage Conditions</b>	Store in cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight.

## 10. Exposure Controls/Personal Protection

<b>Occupational Exposure Limits</b>	
<b>TWA (8 hr exposure limit)</b>	208 mg/m <sup>3</sup> (OES)
<b>STEL (15 min exposure limit)</b>	416 mg/m <sup>3</sup> (OES)
<b>Hazardous ingredients</b>	<b>2-METHYLPROPENOIC ACID</b> TWA (8 hr exposure limit): 72 mg/m <sup>3</sup> STEL (15 min exposure limit): 143 mg/m <sup>3</sup> (OES) <b>METHYL METHACRYLATE</b> TWA (8 hr exposure limit): 208 mg/m <sup>3</sup> STEL (15 min exposure limit): 416 mg/m <sup>3</sup> (OES)
<b>Engineering Measures</b>	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
<b>Respiratory Protection</b>	Self-contained breathing apparatus must be available in case of emergency.
<b>Hand Protection</b>	Protective gloves.
<b>Eye Protection</b>	Safety goggles.
<b>Skin Protection</b>	Protective clothing with elasticated cuffs and closed neck. Boots made of PVC.

## 11. Stability and Reaction

<b>Stability</b>	May polymerize on exposure to light.
<b>Conditions to Avoid</b>	Heat. Light. Sources of ignition.
<b>Materials to Avoid</b>	Acids. Oxidizing agents. Bases. Amines. Halogens.

## 12. Toxicological Information

<b>Hazardous ingredients</b>	<b>2-METHYLPROPENOIC ACID</b> IPR RAT LD50 1250 mg/kg ORL MUS LD50 3275 mg/kg ORL RAT LD50 5050 mg/kg <b>METHYL METHACRYLATE</b> IPR RAT LD50 1328 mg/kg ORL MUS LD50 3625 mg/kg ORL RAT LD50 7872 mg/kg
<b>Chronic Toxicity</b>	May cause sensitization by skin contact.

## 13. Ecological Information

<b>Mobility</b>	Volatile. Soluble in water. Readily absorbed into soil.
<b>Persistence and Degradability</b>	Photodegradable.
<b>Bioaccumulative Potential</b>	No bioaccumulation potential.
<b>Other Adverse Effects</b>	Harmful to aquatic organisms.

## 14. Disposal Considerations

<b>NB</b>	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
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## 15. Transport Information

<b>ADR/RID</b>			
<b>UN No</b>	1247	<b>ADR Class</b>	3
<b>Shipping Name</b>	METHYL METHACRYLATE MONOMER, INHIBITED		
<b>Labeling</b>	3	<b>Hazard ID No</b>	39
<b>IMDG/IMO</b>			
<b>UN No</b>	1247	<b>Class</b>	3.2
<b>Packing Group</b>	II	<b>EmS</b>	3-07
<b>Marine Pollutant</b>	NO	<b>Labeling</b>	3

## 16. Transport Information (cont)

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### IATA/ICAO

UN No	1247	Class	3
Packing Group	II	Labeling	3
Packing instructions	307		

## 17. Regulatory Information

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**Hazard Symbols** Highly flammable.  
Irritant.

**Risk Phrases** R11: Highly flammable.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R43: May cause sensitization by skin contact.

**Safety Phrases** S24: Avoid contact with skin.  
S37: Wear suitable gloves.

**Note:** *The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.*

## 18. Other Information

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**Risk Phrases Used in s.2** R36/38: Irritating to eyes and skin.  
R43: May cause sensitization by skin contact.  
R11: Highly flammable.  
R37/38: Irritating to respiratory system and skin.