

SAFETY DATA SHEET

Date Issued : 12/09/2008
MSDS No : BS1008
Date Revised : 10/28/2015
Revision No : 8

Plastic Conditioner

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Plastic Conditioner
GENERAL USE: Conditions plastic brackets in preparation for bonding.
PRODUCT DESCRIPTION: 6802M6K5
PRODUCT CODE: OT-PL
CHEMICAL FAMILY: Methacrylate
GENERIC NAME: Methyl Methacrylate

MANUFACTURER

Ortho Technology, Inc.
17401 Commerce Park Boulevard
Tampa, FL 33647
Emergency Phone: 1-800-999-3161
E-Mail: ljohnson@orthotechnology.com

24 HR. EMERGENCY TELEPHONE NUMBERS

For Chemical Emergency
Spill Leak or Fire Exposure or Accident
Call CHEMTREC Day or Night
Domestic North America 1-800-424-9300
International, Call +1 703-527-3887 (collect calls accepted)

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Physical:

Flammable Liquids, Category 2

GHS LABEL



Flame

HAZARD STATEMENTS

H226: Flammable liquid and vapour.

PRECAUTIONARY STATEMENT(S)

Response:

P302: IF ON SKIN:.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear liquid

IMMEDIATE CONCERNS: Flammable liquid and vapors. May cause central nervous system depression.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause allergic skin reaction, irritation.

INGESTION: Not an expected hazard in normal use. May be harmful if swallowed. May cause indigestion or may be fatal.

INHALATION: May cause respiratory tract irritation.

MEDICAL CONDITIONS AGGRAVATED: May cause irritation or rash for persons with preexistent skin

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sensitivity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS	Vol. %
Triethylene Glycol Dimethacrylate	109-16-0	60 - 80
Isobutyl Methacrylate	97-86-9	20 - 50
Alkyl Toluidine	3077-12-1	0 - 10

See Section 8 for Exposure Limits

4. FIRST AID MEASURES

EYES: Remove contacts lenses. Flush with plenty of water. Seek medical attention by an ophthalmologist.

SKIN: Wash off with soap and water. Remove contaminated clothing. If irritation persists consult a physician.

INGESTION: Drink large quantity of milk or water. Seek medical attention immediately. Only induce vomiting if directed by physician.

INHALATION: Remove to fresh air. If breathing is difficult give oxygen and seek immediately medical attention.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: Heat can initiate exothermic polymerization.

EXTINGUISHING MEDIA: Chemical foam, Carbon Dioxide or Dry Chemical.

OTHER CONSIDERATIONS: Explosion Limits : 2.1 - 12.5% for Methyl Methacrylate

EXPLOSION HAZARDS: Explosive mixtures with air may occur at room temperature. Heated containers can build up pressure and explode.

FIRE FIGHTING PROCEDURES: Cool fire-exposed containers with water.

FIRE FIGHTING EQUIPMENT: Wear NIOSH-approved self-contained breathing apparatus and full protective gear.

FIRE EXPLOSION: Vapors may travel to ignition source and flash back. Flammable liquid.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Always use impervious gloves when cleaning up. Absorb spill with inert absorbent such as paper towels or vermiculite as absorbant. Dispose of according to applicable regulations.

LARGE SPILL: Evacuate area if needed.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not contaminate any lakes, streams or groundwater.

LAND SPILL: Do not contaminate soil.

GENERAL PROCEDURES: Do not dump the spilled material in sewer.

SPECIAL PROTECTIVE EQUIPMENT: See Section 8 for Personal Protective Equipment.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep in original containers supplied by manufacturer. Use by trained professionals only

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and according to directions. Avoid contact with eyes, skin and soft tissue.

HANDLING: Avoid unnecessary exposure.

STORAGE: Store at room temperature, preferably cool, dry place, out of sunlight or strong light. Keep away from sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

HAZARDOUS COMPONENTS					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Isobutyl Methacrylate	TWA	[1]	[1]	[1]	[1]
	STEL	[1]	[1]	[1]	[1]
Footnotes:					
1. Not Established					

ENGINEERING CONTROLS: Ventilation should be designed in accordance with good engineering practices.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses or goggles.

SKIN: Impervious Gloves.

RESPIRATORY: Avoid prolonged breathing vapors of the uncured material.

PROTECTIVE CLOTHING: Protect all exposed skin from contact. Use lab coat over clothing.

WORK HYGIENIC PRACTICES: Follow good chemical handling/laboratory practice. Avoid unnecessary exposure.

OTHER USE PRECAUTIONS: Eye wash should be available in areas where this product is handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Clear Liquid

ODOR: Acrylic odor

APPEARANCE: Clear Liquid

COLOR: Colorless

FLASHPOINT AND METHOD: (50°F)

Notes: For Methyl Methacrylate

VAPOR PRESSURE: 21 mmHg

BOILING POINT: 119°C

SOLUBILITY IN WATER: Insoluble.

EVAPORATION RATE: Faster than Butyl Acetate

SPECIFIC GRAVITY: 0.92

10. STABILITY AND REACTIVITY

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HAZARDOUS POLYMERIZATION: Polymerization with the release of heat may occur.

STABILITY: Stable in normal storage conditions.

CONDITIONS TO AVOID: Temperatures over 40 C, sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Oxides

INCOMPATIBLE MATERIALS: Peroxides, amines, oxydizing and reducing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Isobutyl Methacrylate	11824 mg/kg (Mouse)	20 ml/kg (Rabbit)	3600 ppm 6 hrs (Rat)

EYE EFFECTS: May cause irritation, pain, eye burns, or permanent eye damage.

SKIN EFFECTS: May cause irritation or rash for persons with preexistent skin sensitivity.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: There is no specific information on the product.

GENERAL COMMENTS: Use according to good working practice.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Incinerate or dispose according to local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Methyl methacrylate monomer, stabilized

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1247

PACKING GROUP: II

NAERG: 129

LABEL: Flammable Liquid

15. REGULATORY INFORMATION

GENERAL COMMENTS: Ingredients Determining the label : Methacrylate Esters Monomers

16. OTHER INFORMATION

REASON FOR ISSUE: Updated Chemical Composition

APPROVED BY: J.Hutchins **TITLE:** QA/RA DIrector

PREPARED BY: T.Swan

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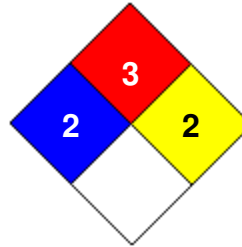
INFORMATION CONTACT: 1-800-999-3161

REVISION SUMMARY: This MSDS replaces the 03/19/2014 MSDS.

HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY		3
PHYSICAL HAZARD		2
PERSONAL PROTECTION		C

NFPA CODES



ADDITIONAL MSDS INFORMATION: Safety Phrases : S36 Wear suitable protective clothing

MANUFACTURER DISCLAIMER: The above information is based on presently available data and to the best of our knowledge for handling the product under normal conditions. Any use of this product in any way not indicated on this document or using it together with any other process/procedure will be exclusively under the user's responsibility.