

# MATERIAL SAFETY DATA SHEET

*Product Name:* Mercox II

*Catalog Number:* 21245, 21246, 21247

*DOT Hazard Class:* Flammable Liquid

*DOT Proper Shipping Name:* Methyl methacrylate monomer solution, stabilized

*IATA Proper Shipping Name:* Methyl methacrylate monomer, stabilized

*UN/NA ID No.:* UN 1247

*MSDS Prepared:* 11/2007

*Distributed By:* Ladd Research  
83 Holly Court  
Williston, VT 05495  
(802) 658-4961

## HAZARDOUS COMPONENTS

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
Methyl methacrylate	80-62-6	60-90%	100 ppm (OSHA PEL)
Ethylene Glycol Dimethacrylate	97-90-5	5-20%	Not Established
Bis(2-ethylhexyl) phthalate	117-81-7	5-20%	5 mg/m <sup>3</sup> in air (OSHA PEL)
Proprietary Non-Haz Ingredient	-----	1-10%	-----

## PHYSICAL AND CHEMICAL DATA

**Boiling Point:** ~100°C

**Melting Point:** ~-48°C

**Vapor Pressure:** 38.6 mbar @ 20°C

**Vapor Density:** Not established

**Specific Gravity:** 0.943

**Solubility in water:** 1.6 g/100 ml @ 20°C

**Solubility in other materials:** Soluble in most organic solvents

**Viscosity:** 0.56 mPa.s @ 20°C

**Appearance:** Colorless liquid. Characteristic acrid acrylic odor.

## FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 2°C

**Autoignition Temperature:** 430°C

**Lower Explosive Limit:** 2.1%

**Upper Explosive Limit:** 12.5%

**Extinguishing Media:** Carbon dioxide, dry chemical, alcohol or polymer foam

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to cool fire-exposed containers.

**Unusual Fire and Explosion Hazards:** Vapor may travel considerable distance to source of ignition and flash back. May undergo auto-polymerization. Container explosion may occur under fire conditions.

## HEALTH HAZARD DATA

**Primary Routes of Entry:** Inhalation, skin, eye

**Acute Effects:** Harmful if swallowed, inhaled or absorbed through skin. Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract. Causes skin irritation. Symptoms of exposure include burning sensation, coughing wheezing, laryngitis, shortness of

breath, headache, nausea and vomiting.

***EMERGENCY AND FIRST AID***

Immediately flush eyes or skin with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

***REACTIVITY DATA***

**Stability:** Stable.

**Hazardous Polymerization:** May occur.

**Conditions to avoid:** Avoid heat and ignition sources.

**Incompatibility:** Oxidizing agents, peroxides, bases, acids, reducing agents, amines, halogens, heat. May polymerize on exposure to light.

**Hazardous Decomposition Products:** Toxic fumes of carbon monoxide and carbon dioxide.

***SPILL, DISPOSAL AND STORAGE INFORMATION***

**Spill:** Evacuate area. Shut off all sources of ignition. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Cover with an activated carbon absorbent, take up and place in closed containers.

**Disposal:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all state, federal and local laws

**Storage:** Store in dark, cool, dry place.

***PROTECTIVE EQUIPMENT AND CONTROL MEASURES***

**Respiratory:** OSHA or NIOSH approved respirator.

**Gloves:** Heavy rubber.

**Eye:** Chemical splash goggles or face shield.

**Ventilation:** Use in explosion-proof fume hood.

***SECTION 313 SUPPLIER NOTIFICATION***

This product contains a chemical that is subject to the reporting requirements of section 313 of the emergency planning and community right-to-know act of 1986 and of 40 CFR 372.

**Methyl methacrylate**

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The information presented is believed to be correct and is the most accurate information available to us at this time. However, Ladd Research makes no warranty, express or implied, and assumes no liability for this information and the product described herein.