

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: 9/2011

Distributed By: Ladd Research
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Williston, VT 05495
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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 ³ 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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