

SAFETY DATA SHEET

Product Name: Mercox II Resin

Catalog Number: 21245M, 21246M, 21247M

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: 6/29/2023

Distributed By: Ladd Research
3 Ewing Place
Essex Junction, VT 05452 USA
(802) 658-4961

Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225

Skin irritation (Category 2), H315

Skin sensitization (Category 1), H317

Specific target organ toxicity – single exposure (Category 3), Respiratory System, H335

GHS Label elements, including precautionary statements

Signal word Danger

Hazard Statement(s)

H225 Highly flammable liquid and vapour
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H335 May cause respiratory irritation

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces
P233 Keep container tightly closed
P240 Ground/bond container and receiving equipment
P241 Use explosion-proof electrical/ventilating/lighting/equipment
P242 Use only non-sparking tools
P243 Take precautionary measures against static discharge
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P264 Wash skin thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P272 Contaminated work clothing should not be allowed out of the workplace

P280 Wear protective gloves/protective clothing/eye protection/face protection

P303, P361, P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304, P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 Call a POISON CENTER or doctor/physician if you feel sick

P333, P313	If skin irritation or rash occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P370, P378	In case of FIRE: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P403, P233	Store in a well-ventilated place. Keep container tightly closed
P403, P235	Store in a well-ventilated place. Keep cool
P405	Store locked up
P501	Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) or not covered by GHS

Lachrymator

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

Other Information

Full text of H-Statements referred to previously

Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

HMIS Rating

Health hazard:	2
Flammability:	3
Physical Hazard:	0

NFPA Rating

Health Hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

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.