

SAFETY DATA SHEET**Trade Name:** Raybo 43 MarHard**Version:** 1.0**Date:** 2-5-08**1) Identification of the Substance/Preparation and Company****Trade Name:** **Raybo 43 MarHard****Identification of the manufacturer/Supplier**

Address: Raybo Chemical Company
PO Box 2155
Huntington, WV 25725

Telephone: 304-525-5171

Fax: 304-525-2921

Information provided by/Telephone

304-525-5171 William F Reid, Technical Director

Emergency Telephone Number

Chem Trec 800-424-9300 (Domestic)

Chem Trec 703-527-3887 (International)

2) Composition/Information on Ingredients

Hazardous Ingredients	OSHA PEL	ACGIH TLV	SARA 313%
Xylene CAS NO: 1330-20-7 Einecs NO: 215-535-7	100 PPM	100 PPM	53.1%
Ethyl Benzene CAS NO: 100-41-4 Einecs NO: 202-849-4	100 PPM	100 PPM	<15.2%
Toluene CAS NO: 108-88-3 Einecs NO: 203-625-9	100 PPM	50 PPM (Skin)	<0.7%

NOTE: CONTENTS PARTIALLY UNKNOWN

3) Potential Health Effects and Hazards

HMIS Rating: Health (1) Flammability (3) Reactivity (0) Personal Protection ()

Eye: Contact/Exposure with liquid or high vapor concentrations can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling. Halo or blurred vision symptomatic of eye damage.

Skin: Brief exposure may cause skin irritation. Prolonged or repeated exposure may cause defatting and drying of the skin which may result in dermatitis.

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- Ingestion:** Single dose oral toxicity is low. Ingestion/swallowing is not likely do to high viscosity. Ingestion/swallowing small amounts of this material during normal handling is not likely to cause harmful effects.
- Inhalation:** Breathing of vapor or mist during normal handling and use is possible. Breathing large amounts during application or misuse of product may be harmful. Avoid air concentrations exceeding recommended exposure limits (see Section 2). Xylene has been associated with liver and kidney damage. Ingestion of ethyl alcohol even hours after exposure to Xylene may intensify possible damage.
- Chronic:**
(Information) Prolonged or repeated exposure to this product without appropriate PPE is potentially harmful.
- Developmental:**
(Information) No Data. As a precaution, avoid prolonged or repeated exposure to liquid or vapor.
- Symptoms of Exposure:** Signs and symptoms of exposure to this product through eye contact, breathing, swallowing, and/or passage of product components through the skin may include moderate to severe eye irritation, skin irritation (burning, itching, redness), stomach or intestinal upset, irritation of airways, and central nervous system depression, and cardiac abnormalities.

4) First Aid Measurers

- Eyes:** If symptoms develop, remove from exposure. Flush eyes with water for a least 20 minutes while holding eyelids open. If symptoms persist, seek immediate medical attention.
- Skin:** Remove affected clothing. Wash affected skin with soap and water. If symptoms persist, seek medical attention.
- Ingestion:** If symptoms develop, seek medical attention/advice. Do NOT induce vomiting. This product contains an aspiration hazard. Maintain head below hips to prevent aspiration.
- Inhalation:** If symptoms develop, move away from exposure and into fresh air. If symptoms persist, keep person warm and quiet. Seek medical attention. If breathing is difficult, administer oxygen.

NOTE TO PHYSICIANS: Aspiration Hazard. Note hazardous material component(s) (Section 2).

5) Fire Fighting Measurers**Flammable Properties**

Flash Point: 80°F (27°C) **Method:** Tag Closed Cup (TCC)

Flammable Limits:

Lower Flammable Limit: 1.0%
Upper Flammable Limit: No Data

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Autoignition Temperature:	No Data
Hazardous Combustion Products:	Products of combustion may include carbon monoxide, carbon dioxide, and hydrocarbons.
Extinguishing Media:	Carbon Dioxide, Dry Chemical for small fires. Alcohol type or general purpose foam for large fires. Water spray may be ineffective but may be used to cool fire exposed containers.
Fire Fighting Instructions:	Wear self-contained breathing apparatus with all appropriate turn-out gear and chemical resistant protective equipment. Smother to exclude air. Handle as an oil fire.

6) Accidental Release Measures

Personal Precautions:	Provide adequate ventilation. Wear appropriate personal protective equipment (PPE) and exclude those unprotected from the area. Eliminate all sources of ignition.
Environmental Precautions:	Prevent discharge to streams, lakes, or other bodies of water. Transfer to a salvage vessel if possible. Notify supervisors or proper authorities that a spill has occurred. (See Section 13 for Disposal Information)
Methods for Cleaning Up:	Stop spill at source. Immediately collect and containerize uncontaminated product and use in non-critical areas if possible. If contaminated (dirt, deleterious materials, etc.) containerize and absorb any residual or unrecoverable product with vermiculite, floor absorbent, etc.

7) Handling and Storage

Handling:	Handle containers (even empty) with caution. Static charge may accumulate on containers. Metal containers (5 gallon or larger) should be grounded and bonded when product is transferred. Do NOT use product near heat, spark, open flame, or other sources of ignition. Empty containers retain product residue (vapor, liquid, and/or solids). Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by ignition sources at locations distant from the handling point. Use recommended PPE when handling containers. Ensure availability of emergency eyewash and shower facilities.
Storage:	Store closed containers in a cool, well ventilated place, away from ignition sources and incompatible material. Keep containers tightly closed.

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8) Exposure Controls/Personal Protection

Engineering Controls: Provide sufficient mechanical (general or local exhaust) ventilation to maintain exposure below TLV(s) listed in Section 2. Always provide mechanical ventilation of confined spaces.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, (Section 2), an approved (NIOSH/MSHA) respirator must be worn. Respirator type: chemical cartridge; mist, organic vapor; may be appropriate upto 10X PEL. Consult your safety administrator. Respiratory protection should be used in compliance with OSHA standard 29 CFR 1910.134.

Skin Protection: During handling and application, wear chemical resistant gloves. Wear clothing appropriate for the risk of exposure.

Eye Protection: During handling of liquid and open containers, minimum recommended protection is chemical splash proof goggles in compliance with OSHA regulations. Other type(s) safety glasses may be permitted. Consult your safety administrator.

9) Physical and Chemical Properties

Boiling Point: 279°F (137°C)
Melting Point: Not applicable
Vapor Pressure: (for product) >5.1 mmHg @ 68°F
Vapor Density: 3.6 (Air = 1)
Solubility in Water: Insoluble in water
Specific Gravity: 0.876 +/- 0.006
PH: Not applicable
Odor: Aromatic odor
Appearance: Amber semi-solid

10) Stability and Reactivity

Chemical Stability: Stable Product

Incompatibility (Conditions to Avoid): Avoid contact with or exposure to strong oxidizing agents such as Nitric Acid or Permanganate.

Hazardous Decomposition Products: Products of decomposition include carbon monoxide, carbon dioxide, and various petroleum hydrocarbons.

Hazardous Polymerization: Product will **NOT** undergo hazardous polymerization.

Thermal Decomposition: No decomposition when used as directed.

11) Toxicological Information

Exposure Limit of Material: See Section 2

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Carcinogenicity of Material: The following components (present in reportable quantities) of this product have been identified by ACGIH, IARC, NTP, and/or OSHA as confirmed/suspected human carcinogens: None Reported

Ethyl Benzene has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. The International Agency for Research on Cancer (IARC) has classified Ethyl Benzene as a possible human carcinogen.

Medical Conditions Aggravated by Over Exposure: Certain pre-existing eye, skin, respiratory, and cardiac disorders may be aggravated by exposure to this product.

Synergistic Effects: Xylene interacts synergistically with N-Hexane to enhance mid-range hearing loss.

12) Ecological Information

Ecotoxicological Information: No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting.

Chemical Fate Information: No Data

13) Disposal Considerations

Disposal Information: As local regulations may vary, all waste must be disposed of in accordance with federal, state, and local environmental protection regulations. This product is considered a hazardous waste if discarded (by ignitibility, Flash Point < 140°F). Do not landfill. Incinerate or consign to a Hazardous Waste Facility. Preferably; to minimize waste, use only the amount necessary for the intended purpose. Store product properly for future use.

14) Transport Information

Land: USA: Paint Related Material, 3, UN1263, PGIII

International: Flammable Liquid N.O.S. (Xylene) 3, UN1993, PGIII

Marine: IMDG/GGVSee: Flammable Liquid N.O.S. (Xylene) 3, UN1993, PGIII, IMCO 3.3, EMS F-E, S-E

Air ICAO/IATA: Flammable Liquid N.O.S. (Xylene) 3, UN1993, PGIII

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USA: Consult 29 CFR for applicable OSHA regulations. See Section 2 for permissible exposure limits. See Section 8 for minimum personal protection recommendations.

CERCLA: Reportable Quantities (RQ):
 Xylene 100#
 Toluene 1000#
 Ethyl Benzene 1000#

SARA Hazard Categories: Immediate (X) Delay (X) Fire (X) Reactive ()
 Sudden Release of Pressure ()

SARA 313 Reportable:

Xylene (CAS 1330-20-7) 61.53%
 Ethyl Benzene (CAS 100-41-4) 14.60%

HAP (Hazardous Air Pollutants)
 Xylene, Ethyl Benzene, Toluene

VOC (Volatile Organic Content): 5.47 lbs./gal (655.5 gm/L)

State "Right to Know": The following states have "Right to Know" laws, which may require user notification of Section 2 ingredients. Consult appropriate authorities to determine applicability. CA, NJ, PA, MA, CT, FL, LA, NY, RI.

Specifically: NJ "Right to Know" contents partially unknown

	CAS		CA Prop 65	NJ	PA	MA
Toluene	108-88-3	1.00%	X	X	X	X
Xylene	1330-20-7	61.53%	X	X	X	X
Ethyl Benzene	100-41-4	14-60%	X	X	X	X

CA Proposition 65: Toluene is listed as a reproductive toxin.
 Ethyl Benzene is listed as a possible human carcinogen.

International

Canadian NPRI:
 Canadian WHMIS: Class B, Division 2, Class D, Division 2, Sub B

AICS – Australian Inventory of Chemical Substances: Listed
 EINECS – European Inventory of Existing Commercial Chemical: Listed
 CEPA (DSL) Canadian Environmental Protection Act: Listed
 MITI – Japanese Existing & New Chemical Substances List: Listed
 IECSC – Chinese Chemical Substance List: Listed

16) Other Information

The provided information pertains to this product as currently formulated, and is based on information made available to us at this time. Addition of reducers or additives to this

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product may substantially alter the composition and hazards of this product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Department Issuing Safety Data Sheet

Raybo Chemical Company
PO Box 2155
Huntington, WV 25721
Telephone: 304-525-5171
Fax: 304-525-2921