



Material Safety Data Sheet

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1. PRODUCT AND COMPANY IDENTIFICATION

RHODIA INC.
RHODIA NOVECARE
CN 7500
8 Cedar Brook Drive
Cranbury, NJ 08512-7500 US

Emergency Phone Numbers:

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT
CONTACT: CHEMTREC (800-424-9300 within the United States or
703-527-3887 for international collect calls) or Rhodia CAERS
(Communication and Emergency Response System) at 800-916-3232.

For Product Information:
800-973-7873

Chemical Name or Synonym:
ISOBORNYL METHACRYLATE

Molecular Formula:
C14 H22 O2

2. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor:
colorless / liquid, slight odor.

Warning Statements:
CAUTION! EYE, SKIN AND RESPIRATORY TRACT IRRITANT.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye:
Irritant. Can cause redness, irritation.

Acute Skin:
Irritant. Can cause redness, irritation.

Acute Inhalation:

May cause headache, nausea, dizziness, respiratory tract irritation.

Acute Ingestion:

Low acute oral toxicity. May cause nausea, vomiting, abdominal cramps.

Chronic Effects:

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	OSHA Hazard	% WT/WT
ISOBORNYL METHACRYLATE	7534-94-3	Y	> 98.5

4. FIRST AID MEASURES**FIRST AID MEASURES FOR ACCIDENTAL:****Eye Exposure:**

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Exposure:

In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned.

Inhalation:

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek immediate medical attention.

Ingestion:

Do not induce vomiting, unless directed to do so by a physician. If victim is conscious and alert, wash out mouth with water and keep at rest. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side. Seek medical attention.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

NOTES TO PHYSICIAN:

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point:

101 C (214 F). Flammability Class: WILL BURN.

Method Used:

Closed cup

Flammability Limits (vol/vol%):

Lower:

No Data

Upper:

No Data

Extinguishing Media:

Recommended (small fires): carbon dioxide, dry chemical, Recommended (large fire): alcohol foam, universal foam, water spray.

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Remove all ignition sources if it can be done safely. Cool containers exposed to fire with water.

Unusual Fire and Explosion Hazards:

Product will burn under fire conditions. High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers.

Hazardous Decomposition Materials (Under Fire Conditions):

oxides of carbon

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety:

Spontaneous polymerization can occur. Personnel handling this material should be thoroughly trained to handle spills and releases. Eliminate all sources of ignition until the area is determined to be free from explosion or fire hazards. Place leaking containers in a well-ventilated area.

Containment of Spill:

Dike spill using absorbent or impervious materials such as earth, sand or clay. Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:

Absorb with an inert absorbent. Shovel up into an appropriate closed container (see Section 7: Handling and Storage). Clean up residual material by washing area with water. Collect washings for disposal.

Environmental and Regulatory Reporting:

Do not flush to drain. Runoff from fire control or dilution water may cause pollution. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE**Minimum/Maximum Storage Temperatures:**

4 to 49 C (39 to 120 F)

Handling:

Personnel handling this product should be thoroughly trained as to its hazards. Dissolved air is required for inhibitor to function. To prevent loss of inhibitor, do not blanket or sparge with nitrogen. Keep containers closed when not being used. Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. DO NOT ALLOW TO FREEZE.

Storage:

SHIP AND STORE BETWEEN 40 - 120 F Recommended container material: opaque or amber glass, Store in an area that is well-ventilated, away from incompatible materials (see Section 10. Stability and Reactivity).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Introductory Remarks:**

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Exposure Guidelines:

No exposure limits were found for this product or any of its ingredients.

Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee

exposures: process isolation and remote control, local exhaust ventilation at the point of generation.

Respiratory Protection:

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary. Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

Eye/Face Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area. Face contact should be prevented through use of a face shield.

Skin Protection:

Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure potential. If used correctly, an appropriate barrier cream, selected by a competent health professional, may be useful for preventing hand and forearm skin effects from contact with this product. Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

Physical Appearance:
colorless / liquid.

Odor:
slight odor.

pH:
Not Applicable

Specific Gravity:
0.983 at 25 C (77 F).

Water Solubility:
insoluble

Melting Point Range:
Not Available

Freezing Point Range:
-59 to 0 C (-74 to 32 F)

Boiling Point Range:
> 140 C (284 F) at 20 mmHg

Vapor Pressure:
< 0.1 mmHg at 25 C (77 F)

Vapor Density:
8.4

Evaporation Rate:
0.1 (Butyl Acetate = 1)

Viscosity:
viscosity (centipoises) : <= 20 cps at 25 C (77 F).

Octanol/Water Partition Coefficient:
Not Available

10. STABILITY AND REACTIVITY

Chemical Stability:
This material is stable under normal handling and storage conditions described in Section 7.

Conditions To Be Avoided:
contamination
heat
light
open flame
spark
static electricity
sunlight

loss of dissolved oxygen
loss of polymerization inhibitor
UV light

Materials/Chemicals To Be Avoided:

carbon steel
iron
rust
copper
copper alloys
strong bases
strong oxidizing agents
peroxides
polymerization initiators

The Following Hazardous Decomposition Products Might Be Expected:

Decomposition Type: thermal
oxides of carbon

Hazardous Polymerization May Occur.

Avoid The Following To Inhibit Hazardous Polymerization:

loss of dissolved oxygen
loss of polymerization inhibitor

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:

No test data found for product.

Acute Skin Irritation:

Toxicological Information and Interpretation
skin - sensitization, guinea pig.
Not sensitizing.

Acute Dermal Toxicity:

No test data found for product.

Acute Respiratory Irritation:

No test data found for product.

Acute Inhalation Toxicity:

No test data found for product.

Acute Oral Toxicity:

Toxicological Information and Interpretation
LD50 - lethal dose 50% of test species, > 3106 mg/kg, rat.

Chronic Toxicity:

This product does not contain any substances that are considered by

OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ecotoxicological Information and Interpretation:

LC50 - lethal concentration 50% of test species, 1.79 mg/l/96 hr, fish: *Brachydanio rerio* (Zebrafish).

EC50 - effective concentration 50% of test species, 1.1 mg/l/48 hr, freshwater invertebrate: *Daphnia* (water flea).

Chemical Fate Information:

The material is not readily biodegradable (OECD 301E).

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Handling and Disposal:

DO NOT REUSE CONTAINERS.

Any containers or equipment used should be decontaminated immediately after use.

EPA Hazardous Waste - NO

14. TRANSPORT INFORMATION

Transportation Status: IMPORTANT! Statements below provide additional data on listed transport classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US DOT:

Hazard Class..... 9

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical Shipping Name: (ISOBORNYL METHACRYLATE)

ID Number..... UN3082
Packing Group.... III
Emergency Guide #.... 171

DOT Marine Pollutant

TDG:

Hazard Class..... 9
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Shipping Name: (ISOBORNYL METHACRYLATE)
ID Number..... UN3082
Packing Group.... III

IMO:

Hazard Class..... 9
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Shipping Name: (ISOBORNYL METHACRYLATE)
ID Number..... UN3082
Packing Group.... III

IMO Marine Pollutant

IATA:

Hazard Class..... 9
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Shipping Name: (ISOBORNYL METHACRYLATE)
ID Number..... UN3082
Packing Group.... III

15. REGULATORY INFORMATION

Inventory Status

Inventory	Status
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	Y
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory.

E = All ingredients are on the inventory or exempt from listing.

P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

FEDERAL REGULATIONS

Inventory Issues:

All functional components of this product are listed on the TSCA Inventory.

SARA Title III Hazard Classes:

Fire Hazard - NO
Reactive Hazard - NO
Release of Pressure - NO
Acute Health Hazard - YES
Chronic Health Hazard - NO

STATE REGULATIONS:

This product does not contain any components that are regulated under California Proposition 65.

16. OTHER INFORMATION**National Fire Protection Association Hazard Ratings--NFPA(R):**

2 Health Hazard Rating--Moderate
1 Flammability Rating--Slight
1 Instability Rating--Slight

National Paint & Coating Hazardous Materials Identification System--HMIS(R):

2 Health Hazard Rating--Moderate
1 Flammability Rating--Slight
1 Reactivity Rating--Slight

Reason for Revisions:

Change and/or addition made to Section 2, Section 3, Warning Statements in Section 2, Section 4, Section 11, Section 12, Section 14, Section 15, HMIS Ratings in Section 16, NFPA Ratings in Section 16.

Key Legend Information:

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
TLV - Threshold Limit Value
PEL - Permissible Exposure Limit
TWA - Time Weighted Average
STEL - Short Term Exposure Limit
NTP - National Toxicology Program
IARC - International Agency for Research on Cancer
ND - Not determined
RHODIA - Rhodia Established Exposure Limits

Disclaimer:

The information herein is given in good faith but no warranty, expressed or implied, is made.

****End Of MSDS Document****