



Material Safety Data Sheet

MACKAM 35UL

Date Prepared: 12/07/09

Supersedes Date:

1. PRODUCT AND COMPANY IDENTIFICATION

RHODIA INC.
RHODIA NOVECARE
CN7500
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:**COCAMIDOPROPYL BETAINE****2. HAZARDS IDENTIFICATION****A. EMERGENCY OVERVIEW:**

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

Warning Statements:**WARNING!! SEVERE EYE IRRITANT. SKIN IRRITANT.****B. POTENTIAL HEALTH EFFECTS:****Acute Eye:**

Severe irritant. Can cause redness, irritation, tearing, pain.

Acute Skin:

Irritant. May cause redness, irritation.

Acute Inhalation:

Inhalation not likely. Mists may cause upper respiratory tract irritation.

Acute Ingestion:

Low acute oral toxicity. May cause irritation, abdominal pain, nausea, vomiting.

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 |
|------------------------|----------------|-------------|---------|
| COCAMIDOPROPYL BETAINE | 70851-07-9 | Y | 27 - 31 |
| GLYCERIN | 56-81-5 | Y | 1 - 3 |
| WATER/INERTS | ***** | N | < 71 |

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 5 minutes. Seek medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

Inhalation:

Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

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:

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:
> 93 C (200 F). Flammability Class: WILL BURN.

Method Used:
Closed cup

| | | |
|--|---------------|---------------|
| Flammability Limits (vol/vol%): | Lower: | Upper: |
| | No Data | No Data |

Extinguishing Media:
Recommended (small fires): dry chemical, carbon dioxide, Recommended
(large fire): alcohol foam, universal foam, water spray, Not
recommended: water jet (frothing possible).

Special Fire Fighting Procedures:
Firefighters should wear NIOSH/MSHA approved self-contained breathing
apparatus and full protective clothing.

Unusual Fire and Explosion Hazards:
Product will burn under fire conditions.

Hazardous Decomposition Materials (Under Fire Conditions):
oxides of nitrogen
oxides of carbon

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety:
Wear appropriate protective gear for the situation. See Personal
Protection information in Section 8.

Containment of Spill:
Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:
Absorb with an inert absorbent. Sweep up and place in 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. Prevent material from entering public sewer
system or any waterways. 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:

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4 to 49 C (39 to 120 F)

Handling:

Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Vent drums while heating. Mix thoroughly to assure homogeneity.

Storage:

Store in tightly closed containers. Store in an area that is dry, 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:

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated, S=skin and C=ceiling limit:

GLYCERIN

| | Notes | TWA | STEL |
|-------|-------|------------|------|
| ACGIH | | 10 mg/cu m | |
| OSHA | | 5 mg/cu m | |
| OSHA | | 10 mg/cu m | |

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: general area dilution/exhaust ventilation.

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.

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.

Skin Protection:

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). 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:

clear / liquid.

Odor:

slight odor.

pH:

6 to 7 at 100 wt/wt%.

Specific Gravity:

1.045 at 25 C (77 F).

Water Solubility:

soluble

Melting Point Range:

Not Available

Freezing Point Range:

< -6 C (21 F)

Boiling Point Range:

> 100 C (212 F) at 760 mmHg

Vapor Pressure:

< 23.5 mmHg at 25 C (77 F)

Vapor Density:

Not Available

Percent Volatiles by Volume:

< 66

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:

heat
open flame
spark

Materials/Chemicals To Be Avoided:

strong bases
strong oxidizing agents
strong reducing agents

The Following Hazardous Decomposition Products Might Be Expected:

Decomposition Type: thermal

oxides of nitrogen
oxides of carbon

Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization:

not applicable

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:**Toxicological Information and Interpretation**

eye - eye irritation, rabbit.

Moderately to severely irritating. Data for a similar product with the same active ingredient.

Acute Skin Irritation:**Toxicological Information and Interpretation**

skin - skin irritation, rabbit.

Slightly irritating. Data for a similar product with the same active ingredient.

Acute Dermal Toxicity:**Toxicological Information and Interpretation**

LD50 - lethal dose 50% of test species, > 2000 mg/kg, rabbit.

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, > 5000 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.

No additional test data found for product.

12. ECOLOGICAL INFORMATION**Ecotoxicological Information:**

No data found for product.

Chemical Fate Information:

No data found for product.

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:

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:

Shipping Name: NOT REGULATED

TDG:

Shipping Name: NON DANGEROUS

IMO:

Shipping Name: NOT REGULATED

IATA:

Shipping Name: NOT REGULATED

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. For TSCA Inventory purposes, this material may be described as: a blend of, 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-((1-oxooctyl)amino)-, inner salt (CAS No. 73772-46-0); 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-((1-oxodecyl)amino)-, inner salt (CAS No. 73772-45-9); 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-((1-oxododecyl)amino)-, inner salt (CAS No. 4292-10-8); 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-((1-oxotetradecyl)amino)-, inner salt (CAS No. 59272-84-3); 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-((1-oxohexadecyl)amino)-, inner salt (CAS No. 32954-43-1); 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-((1-oxooctadecyl)amino)-, inner salt (CAS No. 6179-44-8); 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-(((9Z)-1-oxo-9-octadecenyl)amino)-, inner salt (CAS No. 25054-76-6).

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 contains the following components that are regulated under California Proposition 65:

| Ingredient Name | Cancer | Reprod. | No Sign. Risk Lvl (ug/day) | |
|---------------------|--------|---------|----------------------------|--------|
| | List | List | California | RHODIA |
| FORMALDEHYDE | Y | N | 40 | ND |
| DICHLOROACETIC ACID | Y | N | 40 | ND |

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings--NEPA(R):

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

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

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

Reason for Revisions:

Regulatory Review and Update. Incorporation into the Rhodia product line.

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****