Material Safety Data Sheet

CATAFOR F

Date Prepared: 5/04/09 **Supersedes Date: 7/18/06**

1. PRODUCT AND COMPANY IDENTIFICATION

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

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:
COCODIMETHYLAMMONIUM DIETHYL SULFATE

2. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor:
clear viscous liquid, characteristic odor.

Warning Statements:
DANGER! CORROSIVE. CAUSES BURNS. HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, CAN ADVERSELY AFFECT THE KIDNEYS, LIVER.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye:
Corrosive. Can cause burns, significant eye damage.

Acute Skin:
Corrosive. Can cause redness, inflammation, irritation, burns.

Acute Inhalation:
Mists may cause upper respiratory tract irritation, central nervous system depression, nausea, headache, drowsiness, dizziness, loss of coordination.

Acute Ingestion:
Harmful if ingested. May cause burns to mouth and esophagus, nausea, diarrhea, abdominal cramps, May produce symptoms similar to those from inhalation.

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
QUATERNARY AMMONIUM COMPOUNDS, COCO ALKYLETHY LDIMETHYL, ET SULFATES	68308-64-5	Y	75 - 80
ETHYLENE GLYCOL	107-21-1	Y	20 - 25
AMINES, COCO ALKYLDIMETHYL	61788-93-0	Y	1 - 5
ETHANOL	64-17-5	Y	< 1

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 immediate medical attention, preferably with an ophthalmologist. If the physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both eyes.

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:
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 sulfur
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. Product may be harmful to aquatic life in very low concentrations.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures:

Not Available

Handling:
Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. Do not ingest.

Storage:
Store in tightly closed containers. Store in properly designed containers. Store in an area that is dry, well-ventilated, away from ignition sources, away from incompatible materials (see Section 10. Stability and Reactivity), Container material to avoid: unprotected metal.

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:

ETHYLENE GLYCOL

	Notes	TWA	STEL
ACGIH		100 mg/cu m	100 mg/cu m
OSHA	C	125 mg/cu m	
OSHA	C	50 ppm	

ETHANOL

	Notes	TWA	STEL
ACGIH		1000 ppm	
OSHA		1000 ppm	
OSHA		1900 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. Face contact should be prevented through use of a face shield.

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 viscous liquid.

Odor:
characteristic odor.

pH:
6 to 8 at 2 wt/wt%.

Specific Gravity:
~ 1 at 25 C (77 F).

Water Solubility:
soluble

Melting Point Range:
Not Available

Boiling Point Range:
Not Available

Vapor Pressure:
Not Available

Vapor Density:
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

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 sulfur
oxides of carbon

Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization:
not applicable

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:
The following data are for the specified ingredients.
Toxicological Information and Interpretation:
eye - eye irritation, **. Corrosive.

Acute Skin Irritation:
The following data is for the specified ingredient.
Toxicological Information and Interpretation:
skin - skin irritation, **. Corrosive PGIII.

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:
The following data is for the specified ingredients.
Toxicological Information and Interpretation:
LD50 - lethal dose 50% of test species, **. Harmful.

Chronic Toxicity:
This product contains the substances that are considered to be "probable" or "suspected" human carcinogens as follows:

Ingredient Name	Regulatory Agency Listing Carcinogen			
	OSHA	IARC	NTP	ACGIH
ETHANOL	No	1	No	No

Animals studies have shown that ethylene glycol can cause reproductive disorders.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:
No data found for product. May cause adverse environmental impact if material reaches waterways.

Chemical Fate Information:
Ecotoxological Information and Interpretation:
Not readily biodegradable. Data for active ingredient.

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 - YES

EPA RCRA HAZARDOUS WASTE CODES:
"C" Corrosive.

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..... 8
Shipping Name:
CORROSIVE LIQUID, N.O.S.
Technical Shipping Name:
(CONTAINS QUATERNARY AMMONIUM ETHOSULPHATE)
ID Number..... UN1760
Packing Group.... III
Labels..... CORROSIVE

Emergency Guide #.... 154

TDG:
Hazard Class..... 8
Shipping Name: CORROSIVE LIQUID, N.O.S.
Technical Shipping Name: (CONTAINS QUATERNARY AMMONIUM ETHOSULPHATE)
ID Number..... UN1760
Packing Group.... III

IMO:
Hazard Class..... 8
Shipping Name: CORROSIVE LIQUID, N.O.S.
Technical Shipping Name: (CONTAINS QUATERNARY AMMONIUM ETHOSULPHATE)
ID Number..... UN1760
Packing Group.... III

IATA:
Hazard Class..... 8
Shipping Name: CORROSIVE LIQUID, N.O.S.
Technical Shipping Name: (CONTAINS QUATERNARY AMMONIUM ETHOSULPHATE)
ID Number..... UN1760
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)	N
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	- YES

SARA 313 Chemicals

ETHYLENE GLYCOL (20 - 25%)

SARA Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances

Ingredient	CERCLA/SARA RQ	SARA EHS TPQ
ETHYLENE GLYCOL	5000 lbs	

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):

- **3** Health Hazard Rating--Serious
- **1** Flammability Rating--Slight
- **0** Instability Rating--Minimal

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

- **3** Health Hazard Rating--Serious
- **1** Flammability Rating--Slight
- **0** Reactivity Rating--Minimal

Reason for Revisions:
Change and/or addition made to Section 3, Warning Statements in Section 3, Section 4, Section 6, Section 7, Section 8, Section 11, Section 12, Section 15, Regulatory Review and Update.

Key Legend Information:
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
TLV - Threshold Limit Value
PEL - Permissable 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 **