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RTC Product #79327



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Shell Lubricants in the USA

MATERIAL SAFETY DATA SHEET
Review Date: 04/14/2005

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: ROTELLA® ELC Prediluted 50/50

MSDS NUMBER: 1194E - 3

PRODUCT CODE(S): 94042, 9404200001, 9404200055, 9404206021

MANUFACTURER ADDRESS: SOPUS Products, P.O. Box 4427, Houston, TX. 77210-4427

TELEPHONE NUMBERS

Spill Information: (877) 242-7400

Health Information: (877) 504-9351

MSDS Assistance Number: (877) 276-7285

SECTION 2 PRODUCT/INGREDIENTS

CAS#	CONCENTRATION	INGREDIENTS
Extended Life Antifreeze/Coolant		
107-21-1	45 - 54.99 %weight	Ethylene Glycol
7732-18-5	45 - 54.99 %weight	Deionized Water
Mixture	1 - 2.99 %weight	Proprietary additives

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance & Odor: Red liquid. Mild odor.

Health Hazards: May be harmful or fatal if swallowed. May cause acidosis, cardiop

NFPA Rating (Health, Fire, Reactivity): 2, 1, 0

Hazard Rating: Least - 0 Slight - 1 Moderate - 2 High - 3 Extrer

Inhalation:

In applications where vapors (caused by high temperature) or mists (caused by mixi

Eye Irritation:

If irritation occurs, a temporary burning sensation, minor redness, swelling, and/c

Skin Contact:

May cause slight irritation of the skin. If irritation occurs, a temporary burning

Ingestion:

May be harmful or fatal if swallowed. Contains ethylene glycol and/or diethylene g

Other Health Effects:

Material may adversely effect female reproductive performance based on testing in 1
Refer to Section 11, Toxicological Information, for specific information on the fol
Developmental Toxicity, Reproductive Toxicity

Primary Target Organs:

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The following organs and/or organ systems may be damaged by overexposure to this material: Cardiovascular System, Kidney, Liver, Lungs

Signs and Symptoms:

May cause cardiopulmonary effects including rapid respiration and heartbeat, cyanosis

Aggravated Medical Conditions:

Pre-existing eye, skin, respiratory, liver and kidney disorders and may be aggravated

For additional health information, refer to section 11.

SECTION 4 FIRST AID MEASURES

Inhalation:

Move victim to fresh air and provide oxygen if breathing is difficult. Get medical attention

Skin:

Flush exposed area with water and follow by washing with soap if available. If necessary

Eye:

Flush eyes with plenty of water while holding eyelids open. Rest eyes for 30 minutes

Ingestion:

DO NOT take internally. If swallowed, IMMEDIATELY contact a poison control center

Note to Physician:

IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT! Ethylene Glycol (EG) and Diethylene

SECTION 5 FIRE FIGHTING MEASURES

Flash Point [Method]: >260 °F/>126.67 °C [Pensky-Martens Closed Cup]

Extinguishing Media:

Prevent run off from fire control or dilution from entering streams, sewers or drains

Fire Fighting Instructions:

Do not enter confined fire space without full bunker gear (helmet with face shield,

Unusual Fire Hazards:

Material may ignite when preheated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures:

May burn although not readily ignitable.

Wear appropriate personal protective equipment when cleaning up spills. Refer to section 8

Spill Management:

Flush area with water to remove trace residue; place flush solution in proper container

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FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other s

Reporting:

U.S. regulations require reporting releases of this material to the environment wh:

SECTION 7 HANDLING AND STORAGE

Precautionary Measures:

Do not ingest. Avoid prolonged or repeated contact with eyes, skin or clothing. 7

Storage:

Do not store in open or unlabeled containers. Store in a cool, dry place with adeq

Container Warnings:

Keep containers closed when not in use. Containers, even those that have been empt

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ethylene Glycol	ACGIH TLV	Ceiling: 100 mg/m3
Ethylene Glycol	OSHA PEL - 1989 (revoked)	Ceiling: 50 ppmv

EXPOSURE CONTROLS

Provide adequate ventilation to control airborne concentrations below the exposure

PERSONAL PROTECTION

Personal protective equipment (PPE) selections vary based on potential exposure cor

Eye Protection:

Chemical Goggles - If liquid contact is likely., or Safety glasses with side shield

Skin Protection:

Use protective clothing which is chemically resistant to this material. Selection

Published literature, test data and/or glove and clothing manufacturers indicate th
Neoprene, or Nitrile Rubber

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is

Types of respirator(s) to be considered in the selection process include:

For Mist: Air Purifying, R or P style NIOSH approved respirator.

For Vapors: Air Purifying, R or P style prefilter & organic cartridge, NIOSH app

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Red liquid. Mild odor.

Substance Chemical Family: Ethylene Glycols

Appearance: Red liquid.

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Boiling Point: 226 °F
 Flash Point: > 260 °F [Pensky-Martens Closed Cup]
 Freezing Point: -34 °F
 Odor: Mild odor.
 pH: 8 - 8.6
 Physical State: Liquid
 Specific Gravity: 1.06 - 1.09

NOTE: The freezing and boiling point values reflect a 50% solution in water at at

 SECTION 10 REACTIVITY AND STABILITY

Hazardous Decomposition Products:

Thermal decomposition products are highly dependent on combustion conditions. A cc

 SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity

Dermal LD50 > 2 g/kg (Rabbit) OSHA: Non-Toxic Based on components(s)

Carcinogenicity Classification

Extended Life Antifreeze/Coolant

NTP: No IARC: Not Reviewed ACGIH: No OSHA: No

Cardiovascular System

Ingestion of large doses can cause metabolic acidosis that results in cardiopulmona

Developmental Toxicity

Oral exposure of pregnant rats and mice to ethylene glycol has produced birth defec

Kidney

Ingestion of ethylene glycol can cause bladder stones and kidney damage which can b

Liver

Prolonged and repeated ingestion of ethylene glycol has produced liver damage in ra

Lungs

Ingestion of large doses can cause metabolic acidosis that results in cardiopulmona

Reproductive Toxicity

Exposing rats to 2-ethylhexanoic acid salt in drinking water impaired female ferti

Whole Animal

Orally, humans are more sensitive to ethylene glycol than rodents. The reported let

 SECTION 12 ECOLOGICAL INFORMATION

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Environmental Impact Summary:

There is no ecological data available for this product.

Environmental Fate:

The toxicity of this material to aquatic organisms has not been fully evaluated.

SECTION 13 DISPOSAL CONSIDERATIONS

RCRA Information:

Under RCRA, it is the responsibility of the user of the material to determine, at t

SECTION 14 TRANSPORT INFORMATION

US Department of Transportation Classification

This material is not regulated under 49 CFR if in a container of 119 gallon capac

Hazardous Substance/Material RQ:

Ethylene glycol / 10936.850

International Air Transport Association

Hazard Class/Division:	9 (Miscellaneous)
Identification Number:	UN3082
Packing Group:	III
Proper Shipping Name:	Environmentally Hazardous Substances, Liquid
Technical Name(s):	Ethylene Glycol

International Maritime Organization Classification

Hazard Class/Division:	9 (Miscellaneous)
Identification Number:	UN3082
Packing Group:	III
Proper Shipping Name:	Environmentally Hazardous Substance, Liquid
Technical Name(s):	Ethylene Glycol

SECTION 15 REGULATORY INFORMATION

FEDERAL REGULATORY STATUS**OSHA Classification:**

Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 15

Comprehensive Environmental Release, Compensation & Liability Act (CERCLA):

Ethylene Glycol RQ 5000 lbs Reportable Spill => 10937 lbs or 1312 g

Ozone Depleting Substances (40 CFR 82 Clean Air Act):

This material does not contain nor was it directly manufactured with any Class I or

Superfund Amendment & Reauthorization Act (SARA) Title III:

There are no components in this product on the SARA 302 list.

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SARA Hazard Categories (311/312):

Immediate Health:YES Delayed Health:YES Fire:NO Pressure:NO Reactivity:NO

SARA Toxic Release Inventory (TRI) (313):

Ethylene Glycol

Toxic Substances Control Act (TSCA) Status:

All component(s) of this material is(are) listed on the EPA/TSCA Inventory of Chem:

This product may be subject to export notification under TSCA Section 12(b); Cont:

Other Chemical Inventories:

Component(s) of this material is (are) listed on the Australian AICS, Canadian DSI

State Regulation

The following chemicals are specifically listed by individual states; other product

New Jersey Right-To-Know Chemical List:

Ethylene Glycol (0878) 45 - 54.99 %weight Special Hazard

Pennsylvania Right-To-Know Chemical List:

1,2-Ethanediol (107-21-1) 45 - 54.99 %weight Environmental Hazard

SECTION 16 OTHER INFORMATION

Revision#: 3

Review Date: 04/14/2005

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Revisions since last change (discussion): This Material Safety Data Sheet (MSDS) h:

SECTION 17 LABEL INFORMATION

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PROI

PRODUCT CODE(S): 94042, 9404200001, 9404200055, 9404206021

ROTELLA® ELC Prediluted 50/50

WARNING!

MAYBE HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE ACIDOSIS, CARDIOPULMONARY AND KIDNE

MAY CAUSE DAMAGE TO: Cardiovascular System, Kidney, Liver, Lungs

Refer to Section 11, Toxicological Information, for specific information on the fol
Developmental Toxicity, Reproductive Toxicity
Precautionary Measures:

Avoid prolonged or repeated contact with eyes, skin and clothing. Avoid breathing

FIRST AID

Inhalation: Move victim to fresh air and provide oxygen if breathing is difficult.

Skin Contact: Flush exposed area with water and follow by washing with soap if ava

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Eye Contact: Flush eyes with plenty of water while holding eyelids open. Rest eyes.
Ingestion: DO NOT take internally. If swallowed, IMMEDIATELY contact a poison center.

FIRE

In case of fire, Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO₂).
SPILL OR LEAK

Dike and contain spill.

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material.

CONTAINS: Ethylene Glycol, 107-21-1; Deionized Water, 7732-18-5; Proprietary additives.

NFPA Rating (Health, Fire, Reactivity): 2, 1, 0

TRANSPORTATION

US Department of Transportation Classification

This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less.

Hazardous Substance/Material RQ:

Ethylene glycol / 10936.850

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous.

Name and Address

SOPUS Products
P.O. Box 4427
Houston, TX 77210-4427

ADMINISTRATIVE INFORMATION

MANUFACTURER ADDRESS: SOPUS Products, P.O. Box 4427, Houston, TX. 77210-4427

THE INFORMATION CONTAINED IN THIS DATA SHEET IS BASED ON THE DATA AVAILABLE TO US AT THE TIME OF PREPARATION.

TO DETERMINE THE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THIS PRODUCT.

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