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MATERIAL SAFETY DATA SHEETS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: RADIATOR FAST FLUSH

ISSUE DATE: SEPTEMBER 2009

CAS NUMBER: Mixture

SYNONYMS / GENERAL NAMES: RADIATOR FLUSH

24 HOUR EMERGENCY TELEPHONE: (CHEMTREC) 1-800-424-9300

TECHNICAL INFORMATION: 813-248-1988

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>HAZARDOUS INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>PERCENTAGE</u>	<u>HAZARD DATA</u>
1. WATER	7732-18-5	>90	
2. ISOPROPYL ALCOHOL	67-63-0	10	
3. TKPP ANHYDROUS	7320-34-5	2	Eye: Possible low irritant
4. ADDITIVE PACKAGE	MIXTURE	>2	Inhalation: Possible minor irritant

HAZARDOUS PER 29 CFR 1910.1200: None

3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY: Inhalation, Ingestion

TARGET ORGANS: NA

IRRITANCY: Toxic when ingested. Remove to fresh air. Mild skin irritation

REPRODUCTIVE EFFECTS: ND

CANCER INFORMATION: NA

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes.

SKIN: Wash immediately with soap and water. Seek medical aid. Remove contaminated clothing.

ORAL: Do not ingest. Toxic when ingested. Seek medical aid.

INHALATION: Do not inhale mists or fumes. Remove to fresh air. Seek medical aid.

5. FIRE FIGHTING MEASURES

FLASH POINT, °C (°F): 116°C (241°F)

FLAMMABLE LIMITS (% BY VOLUME IN AIR): LOWER: ND UPPER: ND

EXTINGUISHING MEDIA: CO, Dry chemical foam

SPECIAL FIRE FIGHTING PROCEDURES: NE

AUTOIGNITION TEMPERATURE: NE

EXPLOSION DATA: NE

NFPA RATING: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Dike for later disposal.

7. HANDLING AND STORAGE

HANDLING PROCEDURES: When empty, this container may still be hazardous. Because containers, even after they have been emptied, still retain product residues. All labeled hazard precautions must be observed.

STORAGE PROCEDURES: Store below 120°F. Do not apply heat or flame to container. Keep separate from strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local and general ventilation.
GLOVES PROTECTION: Heavy gloves. Neoprene for liquid contact.
EYE PROTECTION: Safety goggles with splash shields.
RESPIRATORY PROTECTION: Approved organic respirator above the TLV.
CLOTHING RECOMMENDATION: NA

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: COLORLESS TO HAZY FLUID
ODOR: Bland
pH: 9.8 - 10.5
VAPOR PRESSURE, mm Hg (25 °C): ND
VAPOR DENSITY: 2.14
MELTING POINT: ND
BOILING POINT, 760 mm Hg, °C: ND
SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY (60/60 °F)(H2O = 1): 1.11 - 1.14
EVAPORATION RATE (n-BUTYL ACETATE = 1): Less than 0.002
VISCOSITY:ND
MOLECULAR WEIGHT: ND
PERCENT VOLATILE: Less than 5

YES	COMBUSTIBLE	YES	FLAMMABLE	NO	PYROPHORIC
NO	COMPRESSED GAS	NO	ORGANIC PEROXIDE	NO	REACTIVITY
NO	EXPLOSIVE	NO	OXIDIZER	YES	STABLE

10. STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: Strong oxidants or acid, such as nitric.
POLYMERIZATION: NA
THERMAL DECOMPOSITION: CO2, (CO under incomplete combustion)

11. TOXICOLOGICAL INFORMATION

-- ACUTE EXPOSURE --

ORAL TOXICITY: Procedures alcohol-like intoxication, processing to dizziness, vomiting, coma, and death.
EYE IRRITATION: Reports of blurred vision and blindness following ingestion, CNS depression, and coma.
SKIN IRRITATION: Mild irritation.
DERMAL TOXICITY: NA
INHALATION TOXICITY: Slight pulmonary irritant.
RESPIRATORY IRRITATION: NA
DERMAL SENSITATION: NA

-- CHRONIC EXPOSURE --

CHRONIC TOXICITY: ND
CARCINOGENICITY: NA
MUTAGENICITY: NA
REPRODUCTIVE TOXICITY: NA

12. HEALTH INFORMATION

HMS CODE: HEALTH: 1 FIRE: 1 REACTIVITY: 0 PPE CODE: NA
PRECAUTIONARY LABELS: Toxic when ingested. Do not ingest. Do not inhale mists or fumes. Contains Ethylene Glycol.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: May be disposed of through controlled incineration or land burial, if in compliance with local regulations. It is the responsibility of the user to determine if the material is a hazardous waste at the time of the disposal. Check before disposing to be sure you are in compliance with all applicable laws and regulations. Chemtrec/RCRA Emergency Hotline number: 800-424-9346

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

DOT Information: Hazardous if RQ = 5,000 lbs. Per package
PROPER SHIPPING NAME:
HAZARD CLASS: 9
HAZARD IDENTIFICATION NUMBER: UN 3082
DOT PLACARD: NA
COMPATIBILITY CATEGORY: 20

15. REGULATORY INFORMATION

SARA SECTION 313 - TOXIC CHEMICALS:

This product does NOT contain toxic chemicals under SARA Section 313 and 40 CFR Part 372.

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>

SARA SECTION 311 - HAZARD CATEGORIES:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

NO	IMMEDIATE (ACUTE) HEALTH HAZARD	NO	SUDDEN RELEASE OF PRESSURE HAZARD
YES	DELAYED (CHRONIC) HEALTH HAZARD	NO	REACTIVE HAZARD
NO	FIRE HAZARD		

SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

CLEAN WATER ACT (CWA):

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance.

U.S. TSCA INVENTORY:

All components of this material are on the US TSCA Inventory.

16. OTHER INFORMATION

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. RALLYE LUBRICANTS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

NFPA HAZARD RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
HMIS HEALTH RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4