



# MATERIAL SAFETY DATA SHEET

NOTE: READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE  
HANDLING OR DISPOSING OF PRODUCT

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## SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**MANUFACTURER'S NAME**

TRINIDAD & TOBAGO NATIONAL PETROLEUM MARKETING CO. LTD.

**EMERGENCY TELEPHONE NUMBER:**

868-623-6245

**FAX NUMBER:**

627-4028

**ADDRESS**

NP HOUSE, NATIONAL DRIVE, SEA LOTS, PORT- OF - SPAIN , TRINIDAD & TOBAGO, W.I.

**PRODUCT NAME**

ULTRA RADOL PREMIUM LONG LIFE COOLANT

**GENERIC AND/OR CHEMICAL NAME**

RADIATOR COOLANT

**ISSUE NO:**

3

**CURRENT DATE**

7/7/2017

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## SECTION II: HAZARDOUS IDENTIFICATION

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**COMPONENT (S)**

1, 2 - Ethanediol (ethylene glycol)

**RANGE IN %**

80.00-94.99

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## SECTION III: PHYSICAL AND CHEMICAL CHARACTERISTICS

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**BOILING POINT**

NA

**ODOR :**

LOW ODOR

**APPEARANCE**

Green liquid

**MELTING POINT**

ND

**KIN. VISCOSITY OF LIQUID @ 40°C**

NA

**SPECIFIC GRAVITY:**

1.110 - 1.125

**FREEZING POINT**

ND

**VAPOR PRESSURE**

ND

**EVAPORATION RATE**

ND

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## SECTION IV: FIRE AND EXPLOSION HAZARD DATA

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**FLASH POINT (closed)**

Min 230 °C

**SPECIAL HAZARDS**

NONE

**EXTINGUISHING MEDIA**

Foam, Water-Fog, Carbon-Dioxide, and Dry chemical.

**UNUSUAL FIRE AND EXPLOSIVE**

NONE

**SPECIAL FIRE FIGHTING PROCEDURES AND EQUIPMENT**

Self - contained breathing apparatus is recommended for firefighters. Water spray must be used with caution to prevent spread of flames.

NA ---- NOT APPLICABLE

ND---- NOT DETERMINED

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## SECTION V: REACTIVITY DATA

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### STABILITY (UNDER NORMAL CONDITIONS)

STABLE

### CONDITIONS TO AVOID

none known

### INCOMPATIBILITY (MATERIALS TO AVOID)

Reacts violently with strong oxidisers

### PRODUCTS EVOLVED WHEN SUBJECTED TO HEAT OR COMBUSTION

Toxic levels of carbon monoxide, carbon dioxide and other harmful products.

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## SECTION VI: HEALTH HAZARD DATA

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### ROUTE(S) OF ENTRY

Skin, Eyes, Inhalation, Ingestion

### EFFECTS OF OVEREXPOSURE

SKIN :Expected to be a mild skin irritant.

EYES :Direct eye contact may cause temporary discomfort

INHALATION: Inhalation of vapors at an elevated temperature may cause respiratory irritation.

INGESTION : WARNING ! HARMFUL OR FATAL IF SWALLOWED.

### EMERGENCY AND FIRST AID PROCEDURES

SKIN : Wash with soap and water. Obtain medical attention if skin disorders develop.

Remove contaminated clothing and launder before reuse. Discard shoes and other leather articles saturated with the material.

EYES: Flush eyes with plenty of water and obtain medical aid if irritation persists.

INHALATION: Not likely in normal usage conditions due to the very low vapor pressure. The unlikely event of inhalation, remove from exposure.

INGESTION : If swallowed, give large quantities of water, THEN INDUCE VOMITING IMMEDIATELY. Get medical attention.

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## SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

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### PROCEDURE IN CASE OF ACCIDENTAL, RELEASE, BREAKAGE OR LEAKAGE

Remove mechanically or contain on an absorbent material (eg. sand or earth) to prevent migration and entry into sewers or streams.

Clean any slippery surfaces by appropriate techniques, such as : several moppings or swabbings with appropriate solvents ; washing with mild, caustic detergents or solutions.

### WASTE DISPOSAL METHOD

Dispose of in accordance with good waste management practise and local regulations.May be incinerated.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Periods of exposure to high temperatures should be minimized.

Water contamination should be avoided.

### SPECIAL PRECAUTION

Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.Do not reuse empties without commercial cleaning or reconditioning.

### OTHER PRECAUTIONS

	NFPA CODE	HMIS CODE	KEY
HEALTH	0	1	4 = SEVERE
FLAMMABILITY	1	1	3 = SERIOUS
REACTIVITY	0	1	2 = MODERATE
			1 = SLIGHT
			0 = MINIMAL

Note: NFPA---National Fire Protection Association

HMIS--- Hazardous Materials Identification System

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**SECTION VIII: CONTROL MEASURES**

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**RESPIRATORY PROTECTION**

No respiratory protection should be needed.

**PROTECTIVE GLOVES**

Impervious gloves i.e. rubber, neoprene, or PVC.

**EYE PROTECTION**

Chemical goggles (splash resistant) or face shield

**OTHER PROTECTIVE EQUIPMENT**

NONE

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**SECTION IX: TOXOLOGICAL INFORMATION**

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No specific information is available. Refer to Section VI for available information on potential health effects.

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**SECTION X: ECOLOGICAL INFORMATION**

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No specific ecological data are available for this product. Report to section VII for information regarding accidental release.

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**NOTATION**

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The information and recommendations contained herein are to the best of NP's knowledge and belief, accurate and reliable as of the date issued

NP does not warrant or guarantee their accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

The Environmental Information included under Section VII hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by NP to provide additional health and hazard classification information.

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NA--- NOT APPLICABLE

ND--- NOT DETERMINED