

# MATERIAL SAFETY DATA SHEET

# True Color® Hybrid Coolant

Product Trade Name: TRUE COLOR® Processed Hybrid Coolant

**Revision Date:** 12/8/08

**Transportation Emergency** 

**Phone No:** Chemtrec: 800-424-9300

**Description:** Ethylene glycol solution

NFPA 704M/HMIS Rating: Health: 2/2 Flammability: 1/1

Reactivity: 0/0 Other: 0

# <u>SECTION 1 - HAZARDOUS INGREDI</u>ENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910 1200. Consult section 13 for the nature of the hazard(s). Cas # 107-21-1 Approx% 50%

## SECTION 2 - PRECAUTIONARY LABEL INFORMATION

Danger: Harmful or fatal if swallowed. Ethylene glycol causes birth defects in laboratory animals.

Prolonged or repeated breathing of vapor or mists may be harmful. Caused eye

irritation. Do not get in eyes. Avoid breathing vapor or mists. Do not take internally.

## **SECTION 3 - FIRST AID INFORMATION**

Eyes: Flush with water for 15 minutes. Call a Physician.

Skin: Flush with water for 15 minutes.

Induce vomiting. Give water. Call a Physician at once.

Inhalation: Remove to fresh air. Treat systems. Call a Physician at once.

Note to Physician: No specific antidote is known. Based on the individual reactions of the

patient, the Physician's judgment should be used to control symptoms and

clinical condition.

Caution: If unconscious, having trouble breathing or in convulsions, do not

induce vomiting or give water.

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# **SECTION 4 - HEALTH EFFECTS INFORMATION**

Primary route(s) of

Exposure: Eye, Skin, Inhalation

Eye Contact: Can cause moderate irritation. Vapors may be irritating.

Skin Contact: Can cause irritation with prolonged contact.

Ingestion: Can be harmful or fatal. Three or four ounces of ethylene glycol may be fatal

to

humans. May cause kidney malfunction and central nervous system

depression.

Inhalation: Prolonged inhalation of vapor may be harmful.

Symptoms of Exposure

Acute: Inhalation of high concentrations of ethylene glycol can cause giddiness,

headaches, dizziness vomiting, nausea, stupor or unconsciousness. Kidney damage may be noted by changes in urinary output. Liver damage may be

noticed by yellow skin color.

Aggravation of Existing

Conditions: Individuals with pre-existing kidney or liver damage may experience a

worsening of effects from ethylene glycol ingestion.

## **SECTION 5 - TOXICOLOGY INFORMATION**

Acute Toxicity Studies: Acute toxicity studies have not been conducted on this product, but toxicity

studies of the ingredient(s) in section 1 have been reviewed. The results are

shown below.

**Acute Oral Toxicity** 

(Albino Rats): Ethylene glycol LD50=6 g/kg.

**Acute Dermal Toxicity** 

(Albino Rabbits): Ethylene glycol LD50=9.5 ml/kg.

Acute Inhalation

Toxicity (Albino Rats): Ethylene glycol LC50=0/8 deaths after 8 hours exposure in saturated air.

Other Toxicity Results: Ethylene glycol has been shown to produce dose-related teratogenic effects in

rats and mice when administered by gavage or in drinking water at high

concentrations.

Chronic Toxicity

Results: Ethylene glycol: Two chronic feeding studies, using rats and mice, have not

shown any evidence that the chemical causes dose-related increases in tumor incidence, or a different pattern of tumors compared to untreated controls. The absence of carcinogenic potential for ethylene glycol has been supported by numerous in vitro genotoxicity studies showing that it does not produce

mutagenic or clastogenic effects.

## SECTION 6 - PHYSICAL AND CHEMICAL PROPERTIES

Color: Clear to pale amber.

Form: Liquid

#### FEDERAL REGULATIONS:

OSHA's Hazard communications Rule, 29 CFR 1910.1200:

Based on our hazard evaluation, the following ingredient in this product is hazardous and the reason is shown below.

Ethylene glycol-systemic effects, possible birth defects based on tests with laboratory animals.

Ethylene glycol (vapor)=TWA 50 ppm, 125 mg/m3 (ceiling) ACGIH/TLV

Toxic Substances Control Act (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

Resource Conservation and Recovery Act (RCRA), 40 CFR 261 Subpart C & D: If this product becomes a waste, it does not meet the criteria of a hazardous waste.

Federal Water Pollution Control Act, Lean Water Act, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311;

This product contains the following ingredients covered by the Clean Water Act:

Sodium nitrate-Section 311

Clean Air Act, 40 CFR 60, Section 111, 40 CFR 61, Section 112: This product contains the following ingredients covered by the Clan Air Act: Ethylene glycol-Section 111

# **STATE REGULATIONS:**

California Proposition 65: None of the chemicals on the current Proposition 65 list are known to be

present in this product.

Michigan Critical Materials: This Product does not contain ingredients listed on the Michigan Critical

Materials Register.

State Right to Know Laws: Regulated in those states using the TLV for ethylene glycol as a criteria for

listing.

## CERCLA. 40 CFR 117, 302:

This product contains sodium nitrate, a Reportable Quantity (RQ) substance and if 38,000 pounds of product are released, it requires notification to the NATIONAL RESPONSE CENTER, WASHINGTON, D.C. (1-800-424-8802).

SARA/SUPERFUND AMENDMENTS and REAUTHORIZATION ACT of 1986 (TITLE III)-Section 302, 311, 312, and 313:

SECTION 302-EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355);

This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312-MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370);

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard

Odor: Aromatic Density: 8.82 lbs/gal.

Solubility in Water: Completely soluble.

 Specific Gravity:
 1.05-1.07 @ 73 Degrees F.
 ASTM D-1298

 pH(NEAT):
 10.8
 ASTM E-70

 Viscosity:
 10 cps @ 73 Degrees F.
 ASTM D-2983

 Freeze Point:
 -34 Degrees F.
 ASTM D-1177

Flash Point: None (PMCC) ASTM D-93 NOTE: These physical properties ate typical values for this product. **SECTION 7 - FIRE AND EXPLOSION** 

Flash Point: Greater than 261 F (PMCC) ASTM D-93

Extinguishing Media: Based on the NFPA guide, use dry chemical, alcohol foam, carbon dioxide

or other extinguishing agent suitable for Class B fires. Use water to cool

containers exposed to fire. For large fires, use water spray or fog,

thoroughly drenching the burning material.

**SECTION 8 - REACTIVITY INFORMATION** 

Incompatibility: Avoid contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric

acid, perchlorates, concentrated oxygen, permanganates, which can generate

heat, fires, explosions and the release of toxic fumes.

Thermal decomposition

Products: In the event of combustion CO, CO2 may be formed. Do not breathe smoke or

fumes. Wear suitable protective equipment.

<u>SECTION 9 - PERSONAL PROTECTION EQUIPMENT</u>

Respiratory Protection: Respiratory protection is not normally needed. If significant mists or aerosols

are generated, wear a NIOSH approved or equivalent respirator (ANSI Z 88.2,

1980 for requirements and selection).

<u>SECTION 10 - SPILL AND DISPOSAL INFORMATION</u>

Disposal: If this product becomes a waste, it does not meet the criteria of a hazardous

waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristic of Subpart C (i.e.

Doo1 through D017) nor is it listed under Subpart D.

As a non-hazardous liquid waste, it should be solidified before disposal to a sanitary landfill. Can be incinerated in accordance with local, state and federal

regulation.

**SECTION 11 - ENVIRONMENTAL INFORMATION** 

If released into the environment, see CERLA in Section 13.

## **SECTION 12 - TRANSPORTATION INFORMATION**

Dot Proper Shipping Name/

Hazard Code: Product is not regulated during transportation.

## **SECTION 13 - REGULATORY INFORMATION**

The following regulations apply to this product.

XX Delayed (chronic) health hazard

- -- Fire Hazard
- -- Sudden release of pressure hazard
- -- Reactive hazard

Under Section 311, submittal of MSDS's or a list of product names to the local emergency planning commission, state emergency response commission and local fire departments is required after October 17, 1987 if you have:

-10,000 pounds or more of a hazardous substance, or

-500 pounds or the threshold planning quantity, whichever is less, of an extremely hazardous substance.

After October 17, 1989, MSDS(s), or a list of product names for all hazardous substances between zero (0) and 10,000 pounds, not previously reported, must be submitted.

SECTION 313-LIST OF TOXIC CHEMICALS (40CFR 372):

This product contains the following ingredient(s) (with CAS # and % range) which appear (s) on the List of Toxic chemicals:

Ethylene glycol 107-21-1 40+

## **SECTION 14 - USER'S RESPONSIBILITY**

This product Material Safety Data Sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

# **BIBLIOGRAPHY**

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