CHS

SAFETY DATA SHEET

Section 1. Identification

CHS Inc. Transportation Emergency (CHEMTREC) : 1-800-424-9300

P.O. Box 64089 Technical Information 1-651-355-8443 Mail station 525

St. Paul, MN 55164-0089 SDS Information : 1-651-355-8445

Product name : (FO) PRE-MIX ULTRA DIESEL EXTENDED LIFE COOLANT/ SDS no. : 1332-90013X

ANTIFREEZE

Common name : Antifreeze, Ethylene Glycol Revision date : 04/22/2015

Chemical name : Ethylene glycol : Mixture

Chemical family : Glycol.

Relevant identified uses of the substance or mixture and uses advised against

Not available.

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

: ACUTE TOXICITY (oral) - Category 4

AQUATIC HAZARD (ACUTE) - Category 3

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : Harmful if swallowed. Harmful to aquatic life.

Precautionary statements

General : Not applicable.

Prevention : Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands

thoroughly after handling.

Response : IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

(HNOC)

: None known.

Hazardous Material Information System (U.S.A.)

Health: 1 * Flammability: 0 Physical hazards: 0

National Fire Protection Association (U.S.A.)

Health: 1 Flammability: 0 Instability: 0

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Chemical name : Ethylene glycol

Other means of identification : Antifreeze, Ethylene Glycol

Ingredient name	%	CAS number
Ethanediol	30 - 60	107-21-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

Eve contact : If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15

minutes, occasionally lifting the lower and upper lids. Get medical attention.

Inhalation If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has

stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as

Skin contact If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the

material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If

irritation persists after washing, get medical attention immediately.

Ingestion If material has been swallowed, do not induce vomiting. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eve contact : No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards.

Harmful if swallowed. Ingestion

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness. Inhalation : Adverse symptoms may include the following: respiratory tract irritation, coughing.

Skin contact : Adverse symptoms may include the following: irritation, redness.

Ingestion No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested Notes to physician

or inhaled.

Specific treatments No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the

person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or

water spray (fog) to extinguish fire.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

Toxic fumes gases or vapors may evolve on burning.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Special protective actions for fire-fighters

When fighting fires wear full turnout gear and self contained breathing apparatus. Water may

cause splattering. Material floats on water.

Special protective equipment for fire-fighters

Not applicable.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Spill Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical

absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage, including any incompatibilities

: Store in closed container away from all ignition sources. Handling temperatures should not exceed 175°F (80°C). Do not store above the following temperature: 113°F (45°C). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Ethanediol	ACGIH TLV (United States, 4/2014). C: 100 mg/m³ Form: Aerosol. OSHA PEL 1989 (United States, 3/1989). CEIL: 125 mg/m³ CEIL: 50 ppm

Appropriate engineering controls

: Use only with adequate ventilation.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Recommended: Splash goggles and a face shield, where splash hazard exists.

Skin protection Hand protection

4 - 8 hours (breakthrough time): Nitrile gloves.Recommended: Long sleeved coveralls.

Body protection Other skin protection Respiratory protection

Recommended: Impervious boots.
If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate

filte

Section 9. Physical and chemical properties

Appearance		Relative density	: 1.07 to 1.08
Physical state	: Liquid.	Evaporation rate	: <1 (Ether. = 1)
Color	: Yellow.	Solubility	: Easily soluble in the following materials: cold water and hot water.
Odor	: Mild.	Solubility in water	: Insoluble
Odor threshold	: Not available.	Partition coefficient: n-	: Not available.
рН	: Not available.	octanol/water	
Melting point	: Not available.	Auto-ignition temperature	: 400°C (752°F)
Boiling point	: 197.22°C (387°F)	Decomposition temperature	: Not available.
Flash point	: Not applicable.	SADT	: Not available.
Flammability	: Not available.	Viscosity	: Not available.
Lower and upper	: Lower: 3.2%	Vapor pressure	: <0.13 kPa (<1 mm Hg) (68°F)
explosive (flammable) limits	Upper: 15.3%	Vapor density	: 2.1 [Air = 1]

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethanediol	LD50 Oral	Rat	4700 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethanediol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	1 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440 mg	-
	Skin - Mild irritant	Rabbit	-	555 mg	-

Sensitization

Skin : There is no data available.

Respiratory : There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of

exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
	, ,	Crustaceans - Crangon crangon - Adult Daphnia - Daphnia magna	48 hours 48 hours
	Acute LC50 8050000 μg/L Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

(FO) PRE-MIX ULTRA DIESEL EXTENDED LIFE COOLANT/ANTIFREEZE

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ethanediol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ethanediol	-1.36	-	low

Mobility in soil

Soil/water partition coefficient (Koc) : There is no data available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

DOT IDENTIFICATION NUMBER UN3082 **DOT proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S.. Marine pollutant RQ (Ethanediol)

DOT Hazard Class(es) 9 PG III DOT EMER. RESPONSE GUIDE NO. 171

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 602 Class I Substances : Not listed DEA List I Chemicals (Precursor Chemicals) : Not listed Clean Air Act Section 602 Class II Substances : Not listed DEA List II Chemicals (Essential Chemicals) : Not listed

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Hazard classifications : Immediate (acute) health hazard

Composition/information on ingredients

Name	%		Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Ethanediol	30 - 60	No.	No.	No.	Yes.	No.

SARA 313 : This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%
Ethanediol	107-21-1	30 - 60

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts: The following components are listed: EthanediolNew York: The following components are listed: EthanediolNew Jersey: The following components are listed: EthanediolPennsylvania: The following components are listed: Ethanediol

California Prop. 65 : No products were found.

Section 16. Other information

Revision date : 04/22/2015 Supersedes : 08/31/2009

Revised Section(s) : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. Prepared by : KMK Regulatory Services Inc.

Notice to reader
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