MATERIAL SAFETY DATA SHEET

Long life Coolant SP252 50%

Emergency Number : General Information :
Chemtrec : 800/424-9300 CCI : 630/739-0606

SECTION I - IDENTIFICATION

Product : Long Life Coolant SP252 50%

Synonyms : None
Chemical Family : Ethylene Glycol solution of salts
CAS No. : Mixture - no single CAS number applicable

SECTION II - INGREDIENTS

Components	CAS No.	Nominal %	Hazard Code	PEL/TLV	Hazard
Ethylene Glycol	107-21-1	40 - 50 %	A	Ceiling : 100mg/m [Aerosol only]	Respiratory irritant Ingestion may produce liver, brain and kidey damage.
Diethylene Glycol	111-46-6	Less than 3 %	A	None	Ingestion may produce liver and kidney damage.
Hydrated inorganic acid, organic acid salts	Proprietary	Less than 5 %	N/A	None	None noted
Water	7732-18-5	45 - 55 %	N/A	None	None noted

SECTION III - HEALTH INFORMATION

Inhalation : Breathing excessive levels of the vapor or mist can irritate the respiratory tract. Excessive vapor concentrations of the major component (ethylene glycol), as might be generated during heating of this material, have occasionally been reported to cause adverse effects on the blood - forming system and the nervous system.

Ingestion : The acute oral toxicities of the components of this mixture are as follows :

Ethylene Glycol

The lowest dose reported to produce death in humans was estimated to be 710 mg/kg body weight; for a person weighting 150 pounds, this would be equivalent to drinking about one and one-half (1.5) fluid ounces of pure ethylene glycol in a short period of time.

Acute oral LD50's = 4,700 mg/kg (rat)
5,500 mg/kg (mouse)

Diethylene Glycol

Acute oral LD50's = 12,600 mg/kg (rat)
23,700 mg/kg (mouse)

Eye Contact : Based on the pH and irritation potential of this mixture's constituents, the mist or liquid can be expected to cause mild to moderate irritation or inflammation of the eyes.

Skin contact : The acute dermal LD50 of the major component(ethylene glycol) of this product is 9,530mg/kg(rabbits). Based on the pH and the irritation potential of this mixture's constituents, the mist or liquid can be expected to cause mild to moderate irritation of the skin.

Carcinogenicity Listing IARC : ( ) OSHA : ( ) NTP : ( ) Not listed : (X)

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL(OSHA Permissible Exposure Limit) : None established for mixture, See Section II.
TLV(ACGIH Threshold Limit Value) : None established for mixture, See Section II.

SECTION V - EMERGENCY FIRST AID PROCEDURE

For Overdose Exposure By :

Swallowing : If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. Do NOT give sodium bicarbonate, fruit juices or vinegar. NEVER give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by physician or Poison Control Center. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

Skin Contact : Immediately flush skin with plenty of water while removing contaminated clothing.

Eye Contact : Immediately flush eyes with plenty of cool water for at least 15 minutes. Do NOT permit victim to rub eyes. GET MEDICAL ATTENTION IMMEDIATELY.

Inhalation : Immediately remove victim to fresh air. If victim has stopped breathing give artifical resporation, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION VI - PHYSICAL DATA

Boiling Point :	Higher than 226F
Melting Point :	Lower than -34F
Vapor Pressure :	Not determined
Density (20C) :	1.08 g/cm^3
Vapor Density (Air = 1) :	Not determined
pH (50v/v%) :	7.8
Solubility in Water :	Infinite misxibility
Appearance and Color :	Clear, slightly viscous, blue dyed liquid

SECTION VII - FIRE AND EXPLOSION HAZARDS

Flash Point :	None
Auto-Ignition Temperature :	Not determined (752F for ethylene glycol)
Flammable Limits in Air, %by Vol.	
Lower :	Not determined (3.2% for ethylene glycol)
Upper :	Not determined (15.3% for ethylene glycol)
NFPA Rating :	Health (1) Flammability (1) Instability (0)
HMIS Rating :	Health (1) Flammability (1) Physical Hazard (0)
Fire Fighting Procedures :	(Note : Individuals should perform only those firefighting procedures for which they have been trained.) Use water spray, dry chemical, foam or carbon dioxide. Use water to keep water spray to disperse the vapors. Water spray may be used to flush spills away from fire and diluted spills to noncombustible proportions(see warning on water spray on hot glycol below.)
Unusual Fire & Explosion Hazards :	Fire fighers should wear self-contained breathing apparatus in the positive pressure mode with a full face piece when, there is a possibility of exposure to smoke, fumes or hazardos decomposition products. Water spray may cause foaming of hot glycol so indirect application of water spray or use of other extinguishing media should be used on hot glycol.

SECTION VIII - REACTIVITY

Stability :	Generally stable
Hazardous Polymerization :	Not likely to occur
Conditions and Materials to Avoid :	Avoid concentrated strong acids, oxidizing agents and bases. Do not expose to open flame.
Hazardous Decomposition Products :	If pyrolyzed, thermal decomposition products of residue may include C, CO, CO_2, H_2O, NH_3, organic vapors and nitrogen-contaning.

SECTION IX - EMPLOYEE PROTECTION

Control Measures :	Handle in the presence of adequate ventilation. Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure criteria (see Section II and IV), including enclosures and local exhaust ventilation.
Respiratory Protection :	Where exprosure is likely to exceed acceptable criteria (see Section II and IV) and engineering controls are not feasible, use NOSH/MISHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air and in accordance with OSHA (29 CFR 1910.134)
Protective Clothing :	Wear gloves and protective clothing which are impervious to the product for the duration of exposure if there is potential for skin contact.
Eye Protection :	Wear safty glasses meeting the specifications of ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safty goggles meeting the specification of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

SECTION X - ENVIRONMENTAL PROTECTION

Environmental Precautions :	Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill release response plan should be developed and implemented.
Spill or Leak Procedures :	Wear appropriate respiratory equipment and protective equipment as described in Section IX. Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media. In the event of an uncontrolled release is reportable under the applicable laws and regulations.
Waste Disposal :	All recovered material should be packaged, labeled, transported, and disposed of or reclaimed in conformance with good engineering practices. Avoid land filling of liquids. Reclaim where possible.

SECTION XI - REGULATORY CONTROLS

Department of Transpotation :

DOT Classification (Bulk) :	Class 9 miscellaneous
DOT Proper Shipping Name :	Environmentally Hazardous Substance Liquid n.o.s. (ethylene glycol), 9, UN3082, III
DOT Classificaion (Non-bulk) :	Not regulated
IATA (Non-bulk) :	Not regulated
IMDG Code (Non-bulk) :	Not regulated

Other Regulatory Requirements :

Toxic Substance Control Act :

This product is a mixture : therefore, it is not listed in the TSCA Inventory of Chemical Substances. All of the components of the mixture are listed in the TSCA Inventory of Chemical Substances.

SARA Hazard Categories (as defined in Section 311/312)

SECTION XI - REGULATORY CONTROLS(CONTINUED)

Health Immediate (Acute) and Delayed (Chronic)

Physical None

The product contains greater than 40% ethylene glycol (CAS# 107-21-1) which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

California Proposition 65

This product does not contain any substances currently listed under California Proposition 65.

SECTION XII - PRECAUTIONS : HANDLING, STORAGE AND USAGE

- To prevent possible storage container rupture, do not permit to freeze; See Section VI.
- Do not expose children and pets to this material.
- Keep container closed.
- Keep away from open flames.
- After handling product, wash thoroughly with soap and water before drinking, eating, or smoking.
- Container hazardous when emptied. Since emptied containers retain product residues, all hazardous precautions described on this MSDS must be observed.

SECTION XIII - CONTACT INFORMATION

The information presented herein is believed to be factual as it has been derived from the works and opinions of people believed to be qualified excepts; however, nothing contained in this information is to be taken as a warranty or representation for which CCI Manufacturing IL Corporation bears legal responsibility. The user should review any recommendation in the specific context of intended use to determine whether they are appropriate.

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