



CCI MANUFACTURING IL CORPORATION

15550 Canal Bank Rd., P.O. Box 339, Lemont, IL 60439 U.S.A.
TEL +1-630-739-0606 FAX +1-630-739-1116

Safety Data Sheet

SDS No. 128524 Subaru Long Life Super Coolant 50/50 Prediluted Antifreeze and Engine
Date : October 20, 2015 Coolant

Subaru Long Life Super Coolant 50/50 Prediluted Antifreeze and Engine Coolant

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product : Subaru Long Life Super Coolant 50/50 Prediluted Antifreeze and Engine Coolant
Synonyms : None
Product Part Number : SOA868V9270

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

Antifreeze/Coolant

1.3 Detail of the supplier of the safety data sheet

| | | |
|--------------|-----------|---|
| Manufacturer | Name | CCI MANUFACTURING IL CORPORATION |
| | Address | 15550 Canal Bank Road, Lemont, IL 60439 |
| | Telephone | (630) 739-0606 |

1.4 Emergency telephone number

CCI: 1-630-739-0606
INFOTRAC: 1-800-535-5053 - DOMESTIC
1-352-323-3500 - INTERNATIONAL

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification :

Health Hazard Classification:

| | |
|---|-----------------------------|
| Acute Toxicity(Oral) | Not Classified |
| Acute Toxicity(Dermal) | Not Classified |
| Acute Toxicity(Inhalation-Gases) | - |
| Acute Toxicity(Inhalation-Vapors) | Classification Not Possible |
| Acute Toxicity(Inhalation-Dusts) | Classification Not Possible |
| Acute Toxicity(Inhalation-Mists) | Classification Not Possible |
| Skin Corrosion/Irritation | Category 2 |
| Serious eye damage/Eye irritation | Category 2 |
| Respiratory or skin sensitization | Category 1 |
| Germ cell mutagenicity | Classification Not Possible |
| Carcinogenicity | Classification Not Possible |
| Reproductive toxicity | Classification Not Possible |
| Specific target organ toxicity single exposure | Category 1, 3 |
| Specific target organ toxicity repeated or prolonged exposure | Category 2 |
| Aspiration hazard | Classification Not Possible |

Physical Hazard Criteria

| | |
|-----------------|---|
| Explosives | - |
| Flammable gases | - |


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| | |
|--|-----------------------------|
| Flammable aerosols | - |
| Oxidizing gases | - |
| Gases under pressure | - |
| Flammable liquids | Not Classified |
| Flammable solids | - |
| Self-reactive chemicals | - |
| Pyrophoric liquids | Not Classified |
| Pyrophoric solids | - |
| Self-heating chemicals | Classification Not Possible |
| Chemicals which, in contact with water, emit flammable gases | - |
| Oxidizing liquids | Classification Not Possible |
| Oxidizing solids | - |
| Organic peroxides | - |
| Corrosive to metals | Not Classified |

2.2 Label elements

Hazard Pictograms



Signal word

Danger

Hazard statements

- Causes serious eye irritation
- Causes skin irritation
- May cause an allergic skin reaction
- Causes damage to organs (Central nerves, Kidney).
- May cause damage to organs (Blood, Kidney, Liver) through prolonged or repeated exposure.
- May cause respiratory irritation

Precautionary statements

Prevention

- Wash contact areas thoroughly after handling.
- Wear eye protection/face protection.
- Avoid breathing mist/vapors/spray.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves.
- Do not breathe mist/vapors/spray.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.

Response

- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.


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If on skin: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If exposed: Call a poison center/doctor immediately.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention if you feel unwell.

Storage

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with applicable federal, state and local regulations.

2.3 Other hazards

Other hazards

Not known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
3.2 Mixtures

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

Proprietary items on this SDS are designated as trade secrets. Requests for disclosure of trade secret information will be made in accordance with the provisions contained in OSHA 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES
4.1 Description of first aid measures

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.

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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 artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media

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 fire-exposed containers cool. If a spill or leak has not ignited, use 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.)

5.2 Special hazards arising from the substance or mixture

Data not available

5.3 Advice for firefighters

To prevent possible storage container rupture, do not permit to freeze. Incompatible with strong acids, oxidizers, bases and chromium trioxide, potassium permanganate, and sodium peroxide.

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 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

6.2 Environmental precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3 Method and material for containment cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE


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7.1 Precautions and safe handling

- Do not expose children and pets to this material.
- After handling product, wash thoroughly with soap and water before drinking, eating, or smoking.
- Keep away from open flames.

7.2 Conditions for safe storage, including any incompatibilities

- To prevent possible storage container rupture, do not permit to freeze. Incompatible with strong acids, oxidizers, bases and chromium trioxide, potassium permanganate, and sodium peroxide.

7.3 Specific end use(s)

The identified uses for this product are detailed in section 1.2.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

| Component | CAS No. | Source | Exposure Limit | Notes |
|-------------------|----------|----------------|---------------------------|---|
| Ethylene glycol | 107-21-1 | US OSHA | None | None |
| | | US ACGIH | 100 mg/m ³ TLV | Ceiling Limit for Aerosols Only; A4 - Not classifiable as a human carcinogen |
| Diethylene Glycol | 111-46-6 | US OSHA | None | None |
| | | US ACGIH | None | None |
| | | US AIHA (WEEL) | 10 mg/m ³ | TWA |

8.2 Exposure controls

- Control Measures :** Handle in the presence of adequate ventilation. Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure criteria, including enclosures and local exhaust ventilation.
- Respiratory Protection :** Where exposure is likely to exceed acceptable criteria and engineering controls are not feasible, use NIOSH/MSHA 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.


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Eye Protection : Wear safety glasses meeting the specifications of ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safety 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 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of basic physical and chemical properties

| | |
|---|---|
| Appearance : | Clear, slightly viscous, blue dyed liquid |
| Odor : | No characteristic odor |
| Odor threshold: | Data not available |
| pH: | 7.7 (original) |
| Freezing point: | Lower than -36°C (-34°F) |
| Initial boiling point and boiling range: | Higher than 108°C (226°F) |
| Flash point: | Data not available |
| Evaporation rate: | Data not available |
| Flammability(Solid, gas): | Data not available |
| Upper/Lower flammability or explosive limits: | Data not available |
| Vapor pressure : | Estimated 0.05 mmHg at 20°C |
| Vapor Density (Air = 1) : | Data not available |
| Density (20°C) : | 1.07 g/cm ³ |
| Solubility in Water : | Infinite miscibility |
| Partition coefficient n-octanol/water: | Data not available |
| Auto ignition temperature: | Data not available |
| Decomposition temperature: | Data not available |
| Viscosity: | Data not available |

9.2 Other information

Data not available

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity

| | |
|-------------------------------------|---|
| 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. |

10.2 Chemical stability

Generally stable

10.3 Possibility of hazardous reactions

Data not available

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Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Data not available

10.6 Hazardous decomposition productsHazardous Decomposition Products : If pyrolyzed, thermal decomposition products of residue may include C, CO, CO₂, H₂O, NH₃, organic vapors and nitrogen-containing.**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Inhalation : Breathing excessive levels of the vapor or mist can irritate the respiratory tract. Excessive vapor concentrations of the major component (ethylene glycol), 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 main components of this mixture are as follows :

Ethylene Glycol :

The lowest dose reported to produce death in humans was estimated to be 1,560 mg/kg body weight; for a person weighing 150 pounds, this would be equivalent to drinking about three fluid ounces of pure ethylene glycol in a short period of time.

Acute oral LD₅₀'s = 4,700 mg/kg (rats)
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 10,600mg/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.

Chronic Effects: No chronic or delayed effects have been identified.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**


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Ecological information of the product : Data not available

Ecological information of the main ingredient of the product

Ethylene Glycol :

LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h

Diethylene Glycol :

LC50 - Pimephales promelas (fathead minnow) - 75,200 mg/l - 96 h

12.2 Persistence and degradability

Degradation half life: Readily biodegradable

12.3 Bioaccumulative potential

Bioaccumulative potential: Bioconcentration potential is low.

Comments to bioaccumulation Log Pow: -0,30

12.4 Mobility in soil

Mobility: The product is miscible with water. May spread in water systems.

12.5 Results of PBT and vPvB assessment

PBT assessment results: This substance is not classified as PBT or vPvB.

12.6 Other adverse effects

Other adverse effects / Remarks: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal : Disposal should be made in accordance with applicable federal, state and local regulations. 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 14 : TRANSPORT INFORMATION

14.1 UN number

UN3082

14.2 UN proper shipping name

Environmentally Hazardous Substance Liquid n.o.s.

(ethylene glycol), 9, UN3082, III

14.3 Transport hazard class(es)

| | |
|---------------------------------|-----------------------|
| DOT Classification (Bulk) : | Class 9 miscellaneous |
| DOT Classification (Non-bulk) : | Not regulated |
| IATA (Non-bulk) : | Not regulated |
| IMDG Code (Non-bulk) : | Not regulated |

14.4 Packaging group

III

14.5 Environmental hazards

Marine pollutant: No

Poison Inhalation Hazard: No

14.6 Special precautions for user

Data not available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code


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Data not available

SECTION 15 : REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
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)

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 contains the following Proposition 65 Chemicals.

| <u>Component</u> | <u>CAS#</u> | <u>California Prop 65</u> |
|----------------------------|-------------|---------------------------|
| Ethylene Glycol (ingested) | 107-21-1 | Reproductive Toxicity |

Bittering Agent

This product contains bittering agent.

SECTION 16 : OTHER INFORMATION

NFPA Rating : Health (1) Fire (0) Reactivity (0)

Preparation information: Issue date October 20, 2015

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 experts; however, nothing contained in this information is to be taken as a warranty or representation for which bears legal responsibility. The user should review any recommendation in the specific context of intended use to determine whether they are appropriate.