Safety Data Sheet

Kia Long Life Antifreeze / Coolant

SDS No. 10439
Date: March 25, 2015
Revision No. 01
Revision Date: October 27, 2015

SECTION 1: IDENTIFICATION

1.1 Product identifier
Product: Kia Long Life Antifreeze / Coolant
Synonyms: None
Product Part Number: UM040 CH 012

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: HAZARDS 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
Kia Long Life Antifreeze / Coolant

Physical Hazard Criteria

Explosives
- 
Flammable gases
- 
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, kidneys, respiratory tract)
May cause respiratory irritation; or may cause drowsiness or dizziness
May cause damage to organs (kidneys) through prolonged or repeated exposure

Precautionary statements

Prevention

Wash contact areas thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves.
Do not breathe mist/vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
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.

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.

Get medical advice/attention if you feel unwell.

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

Call a poison center/doctor 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.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Nominal %</th>
<th>Hazard</th>
<th>PEL/TLV</th>
<th>Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>85 - 94 %</td>
<td>A</td>
<td>Ceiling : 100mg/m [Aerosol only]</td>
<td>Respiratory irritant Ingestion may produce liver, brain and kidney damage.</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>111-46-6</td>
<td>Less than 5%</td>
<td>A</td>
<td>None</td>
<td>Ingestion may produce kidney damage.</td>
</tr>
<tr>
<td>Hydrated inorganic acid, organic acid salts</td>
<td>proprietary</td>
<td>Less than 7%</td>
<td>N/A</td>
<td>None</td>
<td>None noted.</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Less than 5%</td>
<td>N/A</td>
<td>None</td>
<td>None noted</td>
</tr>
</tbody>
</table>
Kia Long Life Antifreeze / Coolant

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.

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.
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

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Source</th>
<th>Exposure Limit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>US OSHA</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US ACGIH</td>
<td>100 mg/m³ TLV</td>
<td>Ceiling Limit for Aerosols Only; A4 - Not classifiable as a human carcinogen</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US OSHA</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Kia Long Life Antifreeze / Coolant

<table>
<thead>
<tr>
<th>Diethylene Glycol</th>
<th>111-46-6</th>
<th>US ACGIH</th>
<th>None</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>US AIHA (WEEL)</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

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, yellowish green dyed liquid
Odor: No characteristic odor
Odor threshold: Data not available
pH: 7.5 (50v/v%)
Freezing point: Lower than -15°C (5°F)
Initial boiling point and boiling range: Higher than 149°C (300°F)
Flash point: 126°C (259°F)
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): 1.13 g/cm³
Solubility in Water: Infinite miscibility
Safety Data Sheet

Kia Long Life Antifreeze / Coolant

SDS No. 10439
Date: March 25, 2015

Revision No. 01
Revision Date: October 27, 2015

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
None

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

10.4 Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials
Data not available

10.6 Hazardous decomposition products
Hazardous 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:
Safety Data Sheet

Kia Long Life Antifreeze / Coolant

SDS No. 10439
Date : March 25, 2015
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Revision Date: October 27, 2015

12.1 Toxicity
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.

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.

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.
Kia Long Life Antifreeze / Coolant

**12.6 Other adverse effects**

Other adverse effects / Remarks: None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

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**

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
Safety Data Sheet

Kia Long Life Antifreeze / Coolant

The product contains greater than 85% 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.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>California Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol (ingested)</td>
<td>107-21-1</td>
<td>Reproductive Toxicity</td>
</tr>
</tbody>
</table>

Bittering Agent

This product contains bittering agent.

SECTION 16 : OTHER INFORMATION

NFPA Rating :

Health (1)  Fire (1)  Reactivity (0)

Preparation information:

Issue date  March 25, 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 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.