Kia Windshield Washer Fluid (Concentrate)

SECTION 1: IDENTIFICATION

1.1 Product identifier
Product: Kia Windshield Washer Fluid (Concentrate)
Synonyms: None
Product Part Number: 504201889

1.2 Relevant identified uses of the substance or mixture and advised against
Window shield Washer Fluid

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) Category 3
- 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 Not Classified
- Serious eye damage/Eye irritation Not Classified
- Respiratory of skin sensitization Classification Not Possible
- Germ cell mutagenicity Classification Not Possible
- Carcinogenicity Classification Not Possible
- Reproductive toxicity Classification Not Possible
- Specific target organ toxicity single exposure Category 1
- Specific target organ toxicity repeated or prolonged exposure Not Classified
- Aspiration hazard Not Classified

Physical Hazard Criteria
Kia Windshield Washer Fluid (Concentrate)

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

2.2 Label elements

Hazard Pictograms

Signal word
Danger

Hazard statements
Toxic if swallowed
Causes damage to organs (eyes, skin, respiratory system, central nervous system, gastrointestinal tract)
Highly flammable liquid and vapor

Precautionary statements

Prevention
Wash contact areas thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe mist/vapors/spray.
Keep away from heat/sparks/open flames/hot surfaces.- No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection
Safety Data Sheet

Kia Windshield Washer Fluid (Concentrate)

Response
If swallowed: Immediately call a poison center/doctor.
Rinse mouth.
If exposed: Call a poison center/doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Storage
Store locked up.
Store in a well-ventilated place. Keep cool.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Other hazards Not known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Nominal %</th>
<th>Hazard Code</th>
<th>PEL/TLV</th>
<th>Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>67-56-1</td>
<td>More than 99</td>
<td>A</td>
<td>200 ppm</td>
<td>Flammable</td>
</tr>
<tr>
<td>(Methanol)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Causes damage to organs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Harmful</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

For Overdose Exposure By:

Swallowing: If swallowed, do not induce vomiting. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

Skin Contact: Remove contaminated clothing and wash contaminated skin with large amounts of water. If irritation persists, contact physician.

Eye Contact: Flush eyes with water for at least 15 minutes. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

Inhalation: Remove patient from contaminated area. If breathing has stopped, give artificial respiration, then oxygen if needed. CALL PHYSICIAN OR POISON CONTROL CENTER 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.

**Inhalation**: Extremely high levels cause stupor, headache, nausea, dizziness and unconsciousness.

**Ingestion**: Poisonous if swallowed. Can affect the optic nerve resulting in blindness. Can cause mental sluggishness, nausea and vomiting leading to severe illness, possibly death (in humans).

\[
\text{Acute oral LC50's} = 4,700 \text{ mg/kg (rats)} \quad \text{(Methyl Alcohol)}
\]

**Eye Contact**: May cause eye injury which may persist for several days. Liquid and vapor in high concentrations causes irritation, tearing and burning sensation.

**Skin contact**: Essentially non-irritating. Repeated or prolonged contact causes drying, brittleness, cracking and irritation.

\[
\text{Dermal LC50's} = 20,000 \text{ mg/kg (rats)} \quad \text{(Methyl Alcohol)}
\]

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically. The severity of outcome following methanol ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested. Therefore, there is a need for rapid treatment of any ingestion exposure. Antidote is fomepizole which enhances elimination of metabolic formic acid. This must be administered by a physician only. For specialist advice physicians should contact the Poison Control Centre.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

**Suitable extinguishing media**: Synthetic Fire fighting foam AR-FFF(3% solution), Dry powder, Carbon dioxide, Water spray, Sand.

**Unsuitable extinguishing media**: Do not use a heavy water stream. Water may be effective for cooling, diluting, or dispersing product, but may not be effective for extinguishing a fire because it will not cool the product below its flash point. If water is used for cooling, the solution will spread if not contained. Mixtures of the product and water at concentrations greater than 20% product are still considered flammable.

5.2 Special hazards arising from the substance or mixture
Safety Data Sheet

Kia Windshield Washer Fluid (Concentrate)

Fire hazard : Highly flammable liquid and vapor. Can accumulate in confined spaces, resulting in a toxicity and flammability hazard. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Under fire conditions closed containers may rupture or explode. Flame may be invisible during the day. The use of infrared and or heat detection devices is recommended.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : Stable normal conditions.

5.3 Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Methanol’s main physical behavior if spilled to water is described as “dissolves/evaporates” in the European Behavior Classification system for chemicals (reported in IMO (2011)). GESAMP hazard profile: methanol does not bioaccumulate and is readily biodegradable in the aquatic environment (IMO2011).

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.
Safety Data Sheet

Kia Windshield Washer Fluid (Concentrate)

- Keep away from heat, sparks and flame.
- Containers should be properly bonded and grounded before transferring contents to other containers.
Use non-sparking tools and explosion-proof equipment when handling flammable liquids.

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.
- Store in a cool, well-ventilated area and keep container closed.

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>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>67-56-1</td>
<td>US OSHA (PEL)</td>
<td>200 ppm (260 mg/m³) TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US ACGIH (TLV)</td>
<td>200 ppm (262 mg/m³) TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>250 ppm (328 mg/m³) STEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>BEI, Skin</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
Kia Windshield Washer Fluid (Concentrate)

9.1 Information of basic physical and chemical properties

- **Appearance**: Clear, light blue liquid
- **Odor**: Methyl alcohol odor
- **Odor threshold**: 4.2-5,960 ppm (as methyl alcohol)
- **pH**: 8 (Original)
- **Freezing point**: Lower than -140 F (-95 C)
- **Initial boiling point and boiling range**: 148 F (65 C)
- **Flash point**: 54 F (12 C) Tag Closed Cup
- **Evaporation rate**: 4.1 butyl acetate = 1 (as methyl alcohol)
- **Flammability (Solid, gas)**: Not applicable
- **Upper/Lower flammability or explosive limits**: 36.0/6.0 % (as methyl alcohol)
- **Vapor pressure**: 12.8 kPa (20C, as methyl alcohol)
- **Vapor Density (Air = 1)**: 1.11
- **Density (20°C)**: 0.8 g/cm³
- **Solubility in Water**: Infinite miscibility
- **Partition coefficient n-octanol/water**: Not available
- **Auto ignition temperature**: 464°C (as methyl alcohol)
- **Decomposition temperature**: Not available
- **Viscosity**: 0.8 cP (25C, as methyl alcohol)

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. Keep away from heat, sparks and flame.

10.2 Chemical stability

Generally stable

10.3 Possibility of hazardous reactions

Under fire conditions closed containers may rupture or explode.

10.4 Conditions to avoid

Avoid heat, sparks, flames and other sources of ignition.

10.5 Incompatible materials
Safety Data Sheet

Kia Windshield Washer Fluid (Concentrate)


10.6 Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation/Ingestion:
The acute oral toxicity of the main components of this mixture are as follows:

- Methyl alcohol
  - Acute oral LD50 = 4,700 mg/kg (rats)

Eye Contact:
May cause eye injury which may persist for several days. Liquid and vapor in high concentrations causes irritation, tearing and burning sensation.

Skin Contact:
The acute dermal LD50 of the major component (Methyl alcohol) of this product is 20,000 mg/kg (rats).

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

Ecological information of the product:
No data available

Ecological information of the main ingredient of the product:
Methyl alcohol:
- LC50 - Fish - 15,400 - 29,400 mg/l - 96 h

12.2 Persistence and degradability

Readily biodegradable

12.3 Bioaccumulative potential

Methyl alcohol
Bioaccumulation: Does not bioaccumulate
Partition coefficient n-octanol/water: -0.77

12.4 Mobility in soil
Methyl alcohol
Mobility: Mobile in soils

12.5 Results of PBT and vPvB assessment
Kia Windshield Washer Fluid (Concentrate)

Methyl alcohol
PBT/vPvB : This substance is not considered to be persistent, bioaccumulating nor toxic(PBT),. This substance is not considered to be very persistent nor very bioaccumulating(vPvB).

**12.6 Other adverse effects**
Methyl alcohol

Further information : Do not flush into surface water or sanitary sewer system.

## 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**
UN1230

**14.2 UN proper shipping name**
RQ Methanol, 3, UN1230 II

**14.3 Transport hazard class(es)**
DOT Classification (Bulk) : Class 3, UN1230
DOT Classification (Non-bulk) : Methanol, 3, UN1230 II
IATA (Small pkg. and case goods) : Methanol 3(6.1) UN1230 II
IATA (Non-bulk) : Not allowed
IMDG Code (Non-bulk) : Methanol 3(6.1) UN1230 II, COC, 12C

**14.4 Packaging group**
II - Medium Danger

**14.5 Environmental hazards**
No supplementary information available

**14.6 Special precautions for user**
No data available

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
No applicable

## 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)
This product contains Methanol (CAS No. 67-56-1) Immediate / Acute Immediate (Acute) and Delayed (Chronic)
Safety Data Sheet

Kia Windshield Washer Fluid (Concentrate)

California Proposition 65
This product contains Methanol (CAS No. 67-56-1) a chemical known
to the state of California to cause reproductive toxicity.

Bittering Agent
This product contains bittering agent.

SECTION 16 : OTHER INFORMATION

NFPA Rating:
Health (1)  Fire (3)  Reactivity (0)

Preparation information:
Issue date          October 30, 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.