1. Identification of the Substance / Preparation and of the Company / Undertaking

Product identifier

Product Name: Krystal Kleer -20 degree Windshield Washer Fluid
Stock Numbers: 111205 / 111201 / 1111202 / 111205-4

Other means of identification

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: Windshield Wiper Fluid
Uses advised against: No information available

Details of the supplier of the safety data sheet

Supplier Name: South/Win, Ltd
Supplier Address: 112 Maxfield Rd.
Greensboro, NC 27405
US
Supplier Phone Number: Phone: (800) 648-4393
Fax: (336) 398-5680

Emergency Telephone Number: CHEMTREC: (800) 424-9300

2. Hazards Identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 1</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 3</td>
</tr>
</tbody>
</table>
Emergency Overview

GHS Label elements, including precautionary statements

**Signal Word**

**Hazard Statement:**
- Harmful if swallowed
- Toxic if contact with skin
- Toxic if inhaled
- Causes damage to organs
- Flammable liquid and vapor

**Appearance** Blue

**Physical State** Liquid

**Odor** Mild Alcohol

**Precautionary Statements - Prevention**
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/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
- Keep cool

**Precautionary Statements - Response**
- IF exposed: Call a POISON CENTER or doctor/physician
- Specific treatment (see supplemental first aid instructions on this label)

**Skin**
- Call a POISON CENTER or doctor/physician if you feel unwell
- Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

**Inhalation**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician

**Ingestion**
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Unknown Toxicity
0.1% of the mixture consists of ingredient(s) of unknown toxicity

Other information
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

Interactions with Other Chemicals
Use of alcoholic beverages may enhance toxic effects.

### 3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>67-56-1</td>
<td>30 - 40</td>
<td>Trade Secret</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. First Aid Measures

**First aid measures**

**General Advice**
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**Eye Contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice. Remove contact lenses, if present and easy to do. Continue rinsing.
5. Fire-fighting Measures

Suitable Extinguishing Media
Dry chemical, CO2, water spray or regular foam. Use water spray or fog; do not use straight streams.

Unsuitable extinguishing media
CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical
Some may be transported hot.

Uniform Fire Code
Flammable Liquid: I-C

Hazardous Combustion Products
Carbon oxides.

Explosion Data

Sensitivity to Mechanical
No.

Impact

Sensitivity to Static
Yes.

Discharge
6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**
Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Do not breathe vapor or mist. Keep people away from and upwind of spill/leak. See section 8 for more information. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

**Other Information**
Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**Environmental Precautions**
Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for Containment**
A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Methods for cleaning up**
Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
7. Handling and Storage

Precautions for safe handling

Handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist. Use only with adequate ventilation and in closed systems. Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

Conditions for safe storage, including any incompatibilities

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store away from other materials. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Incompatible Products
None known based on information supplied.

8. Exposure Controls / Personal Protection

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
</table>
| Methyl alcohol 67-56-1 | STEL = 250 ppm  
TWA: 200 ppm  
S* | TWA: 200 ppm  
TWA: 260 mg/m³  
(vacated) TWA: 200 ppm  
TWA: 260 mg/m³  
(vacated) STEL: 250 ppm  
STEL: 325 mg/m³  
(vacated) S* | IDLH: 6000 ppm  
TWA: 200 ppm  
TWA: 260 mg/m³  
STEL: 325 mg/m³  
STEL: 250 ppm |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines
Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters
Appropriate engineering controls

Engineering Measures
- Showers
- Eyewash stations
- Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection
None required for consumer use. If splashes are likely to occur: Wear safety glasses with side shields (or goggles).

Skin and Body Protection
None required for consumer use. Repeated or prolonged contact: Wear protective gloves and protective clothing.

Respiratory Protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. No information available. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and Chemical Properties

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td>Odor</td>
<td>Mild Alcohol</td>
</tr>
<tr>
<td>Appearance</td>
<td>Liquid</td>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>Blue</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>8.5</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>86 °C / 187 °F</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>29 °C / 85 °F</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Excessive heat. Heat, flames and sparks.

Incompatible materials
None known based on information supplied.

Hazardous Decomposition Products
Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure

Product Information
Inhalation Specific test data for the substance or mixture is not available. Toxic by inhalation. (based on components).

Eye Contact Specific test data for the substance or mixture is not available.

Skin Contact Specific test data for the substance or mixture is not available. Toxic in contact with skin. May be absorbed through the skin in harmful amounts. (based on components).

Ingestion Specific test data for the substance or mixture is not available. May be harmful if swallowed. (based on components).

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol 67-56-1</td>
<td>= 5628 mg/kg (Rat)</td>
<td>-</td>
<td>= 83.2 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms Coughing and/or wheezing. Difficulty in breathing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive Toxicity No information available.

STOT - single exposure Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. Detailed substance and/or ingredient information may be provided in other sections of this SDS. Target organs effects listed in this document may result from a single overexposure to this product. Causes damage to organs if swallowed. Causes damage to organs in contact with skin.

STOT - repeated exposure No information available.

Chronic Toxicity No known effect based on information supplied. Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions.
Target Organ Effects

Aspiration Hazard
No information available.

Numerical measures of toxicity  Product Information

The following values are calculated based on chapter 3.1 of the GHS document

| ATEmix (oral)     | 323.00 mg/kg |
| ATEmix (dermal)   | 968.00 mg/kg (ATE) |
| ATEmix (inhalation-dust/mist) | 1.62 mg/l |
| ATEmix (inhalation-vapor) | 10.00 ATEmix |

12. Ecological Information

Ecotoxicity
The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol 67-56-1</td>
<td>96h LC50: &gt; 29200 mg/L (Pimephales promelas)</td>
<td>96h LC50: &gt; 100 mg/L (Pimephales promelas)</td>
<td>96h LC50: 19500 - 20700 mg/L (Oncorhynchus mykiss)</td>
<td>EC50 = 39000 mg/L 25 min</td>
</tr>
<tr>
<td></td>
<td>96h LC50: &gt; 100 mg/L (Pimephales promelas)</td>
<td>96h LC50: 18 - 20 mL/L (Oncorhynchus mykiss)</td>
<td>96h LC50: 13500 - 17600 mg/L (Lepomis macrochirus)</td>
<td>EC50 = 40000 mg/L 15 min</td>
</tr>
<tr>
<td></td>
<td>96h LC50: &gt; 100 mg/L (Pimephales promelas)</td>
<td>96h LC50: 18 - 20 mL/L (Oncorhynchus mykiss)</td>
<td>96h LC50: 13500 - 17600 mg/L (Lepomis macrochirus)</td>
<td>EC50 = 43000 mg/L 5 min</td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available.

Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol 67-56-1</td>
<td>-0.77</td>
</tr>
</tbody>
</table>

Other adverse effects
No information available.
13. Disposal Considerations

Waste treatment methods

Disposal methods
This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging
Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number
D001 U154

Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
--- | --- | --- | --- | --- |
Methyl alcohol 67-56-1 | Included in waste stream: F039 | | U154 |

California Hazardous Waste Codes
212

This product contains one or more substances that are listed with the State of California as a hazardous waste.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol 67-56-1</td>
<td>Toxic Ignitable</td>
</tr>
</tbody>
</table>

14. Transport Information

**DOT**
Proper Shipping Name: CONSUMER COMMODITY
Hazard Class: ORM-D
Description: CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number: 128

**TDG**
UN-No.: UN1993
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.
Hazard Class: 3
Packing Group: III
Description: UN1993, FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III

**MEX**
UN-No.: UN1993
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.
Hazard Class: 3
Packing Group: III
Description: UN1993 FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III
### ICAO
- **UN-No.**: UN1993
- **Proper Shipping Name**: FLAMMABLE LIQUID, N.O.S.
- **Hazard Class**: 3
- **Packing Group**: III
- **Description**: UN1993, FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III

### IATA
- **UN-No.**: UN1993
- **Proper Shipping Name**: FLAMMABLE LIQUID, N.O.S.
- **Hazard Class**: 3
- **Packing Group**: III
- **Description**: UN1993, FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III

### IMDG/IMO
- **UN-No.**: UN1993
- **Proper Shipping Name**: FLAMMABLE LIQUID, N.O.S.
- **Hazard Class**: 3
- **Packing Group**: III
- **EmS-No.**: F-E, S-E
- **Description**: UN1993, FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III, FP 34C

### RID
- **UN-No.**: UN1993
- **Proper Shipping Name**: FLAMMABLE LIQUID, N.O.S.
- **Hazard Class**: 3
- **Packing Group**: III
- **Classification code**: F1
- **Description**: UN1993 FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III

### ADR
- **UN-No.**: UN1993
- **Proper Shipping Name**: FLAMMABLE LIQUID, N.O.S.
- **Hazard Class**: 3
- **Packing Group**: III
- **Classification code**: F1
- **Description**: UN1993 FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III

### ADN
- **UN-No.**: UN1993
- **Proper Shipping Name**: FLAMMABLE LIQUID, N.O.S.
- **Hazard Class**: 3
- **Packing Group**: III
- **Classification code**: F1
- **Special Provisions**: 274, 601, 640E
- **Description**: UN1993 FLAMMABLE LIQUID, N.O.S.(METHYL ALCOHOL ), 3, III
- **Hazard Labels**: 3
15. Regulatory Information

**International Inventories**

TSCA  Complies
DSL  All components are listed either on the DSL or NDSL.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol - 67-56-1</td>
<td>67-56-1</td>
<td>30 - 40</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazard Categories**

- **Acute Health Hazard**: Yes
- **Chronic Health Hazard**: Yes
- **Fire Hazard**: Yes
- **Sudden release of pressure hazard**: No
- **Reactive Hazard**: No

**CWA (Clean Water Act)**
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol 67-56-1</td>
<td>5000 lb</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RQ= 2270 kg final RQ
RQ= 5000 lb final RQ
US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol - 67-56-1</td>
<td>Developmental</td>
</tr>
</tbody>
</table>

US State Right-to-know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol - 67-56-1</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

International Regulations

Mexico
National occupational exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol 67-56-1 (15-40)</td>
<td></td>
<td>Mexico: TWA= 200 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: TWA= 260 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: STEL= 250 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: STEL= 310 mg/m³</td>
</tr>
</tbody>
</table>

Mexico - Occupational Exposure Limits - Carcinogens

Canada
WHMIS Hazard Class
B2 - Flammable liquid
D2A - Very toxic materials
D2B - Toxic materials

16. Other Information
Safety Data Sheet

Issuing Date: 1-Jun-2008
Revision Date: 27-Mar-2015
SDS Number: 9105

NFPA       Health Hazards  3       Flammability  3       Instability  0       Physical and Chemical
HMIS       Health Hazards  3 *     Flammability  3       Physical Hazard  0       Personal Protection X

Prepared By:                 Randy Boitz

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet