

Issuing Date: 1-Jun-2008

Revision Date: 5-Mar-2015

SDS Number: 9119

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

### Product identifier

**Product Name** Krystal Kleer 0 degree Windshield Washer Fluid**Stock Numbers** 111005 / 111001 / 111005-4

### 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** Highline Aftermarket  
**Supplier Address** 4500 Malone Road  
Memphis, TN 38118  
US**Supplier Phone Number** Phone: (901) 775-5555  
sds@highlineaftermarket.com**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)


Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (single exposure)	Category 1
Flammable liquids	Category 3

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**GHS Label elements, including precautionary statements****Emergency Overview**

<b>Signal Word</b>	<b>Danger</b>
<b>Hazard Statement:</b> Harmful if swallowed Harmful if contact with skin Harmful if inhaled Causes damage to organs Flammable liquid and vapor	
<b>Appearance</b> Blue	<b>Physical State</b> Liquid
	<b>Odor</b> Mild Alcohol

**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
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

**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 if you feel unwell

**Ingestion**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

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**Fire**In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0.7% 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

Chemical Name	CAS No	Weight-%	Trade Secret
Methyl alcohol	67-56-1	10 - 30	*

\*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.

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. If symptoms persist, call a physician.

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<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-mouth resuscitation.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects** Coughing and/ or wheezing. Difficulty in breathing.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Ethanol may inhibit methanol metabolism.

## 5. Fire-fighting Measures

**Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**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**

Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

**Uniform Fire Code**

Toxic: Liquid  
Combustible Liquid: II

**Hazardous Combustion Products**

Carbon oxides.

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**Explosion Data****Sensitivity to Mechanical Impact** No.**Sensitivity to Static Discharge** Yes.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental Release Measures

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

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Full encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not breathe vapor or mist.

**Other Information**

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

**Environmental Precautions****Environmental Precautions**

Prevent entry into waterways, sewers, basements or confined areas.

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

Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**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.

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## 7. Handling and Storage

### Precautions for safe handling

#### Handling

Use personal protection equipment. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory 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.

### Conditions for safe storage, including any incompatibilities

#### Storage

Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Protect from moisture. Store away from other materials. Do not store near combustible materials.

#### Incompatible Products

None known based on information supplied.

## 8. Exposure Controls / Personal Protection

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol 67-56-1	STEL = 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m <sup>3</sup> (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 325 mg/m <sup>3</sup> 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

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**Engineering Measures**  
 Showers  
 Eyewash stations  
 Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**                      Tight sealing safety goggles. If splashes are likely to occur. Face protection shield.

**Skin and Body Protection**                Impervious gloves. Impervious clothing. Chemical resistant apron. Antistatic boots.

**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. Keep away from food, drink, and animal feeding stuffs. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area, and clothing is recommended.

## 9. Physical and Chemical Properties

**Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild Alcohol
<b>Appearance</b>	Liquid	<b>Odor Threshold</b>	No information available
<b>Color</b>	Blue		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	7	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	88 °C / 190 °F	None known	
Flash Point	43 °C / 109 °F	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	No data available	None known	
Water Solubility	Miscible in water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	

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<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

**Other Information**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

## 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. Harmful by inhalation. (Based on components).

**Eye Contact**

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



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**Skin Contact**

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

**Ingestion**

Specific test data for the substance or mixture is not available. Harmful if swallowed. (Based on components).

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl alcohol 67-56-1	= 5628 mg/kg ( Rat )	-	= 83.2 mg/L ( Rat ) 4 h

**Information on toxicological effects****Symptoms**

Coughing and/ or wheezing. May cause blindness.

**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. Causes damage to organs if inhaled.

**STOT - repeated exposure**

No information available.

**Chronic Toxicity**

Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions. Inhalation, ingestion, or skin absorption of methanol can cause blindness.

**Target Organ Effects**

Respiratory system. Central Nervous System (CNS). Eyes. Gastrointestinal tract (GI). Skin. Systemic Toxicity.

**Aspiration Hazard**

No information available.

**Numerical measures of toxicity Product Information**

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

ATEmix (oral) 370.00 mg/kg  
 ATEmix (dermal) 1,111.00 mg/kg (ATE)  
 ATEmix (inhalation-dust/mist) 1.86 mg/l

## 12. Ecological Information

### Ecotoxicity

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

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl alcohol 67-56-1		96h LC50: = 28200 mg/L (Pimephales promelas) 96h LC50: > 100 mg/L (Pimephales promelas) 96h LC50: 19500 - 20700 mg/L (Oncorhynchus mykiss) 96h LC50: 18 - 20 mL/L (Oncorhynchus mykiss) 96h LC50: 13500 - 17600 mg/L (Lepomis macrochirus)	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	

### Persistence and Degradability

No information available.

### Bioaccumulation

Chemical Name	Log Pow
Methyl alcohol 67-56-1	-0.77

### Other adverse effects

No information available.

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## 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

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** 133

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

Chemical Name	California Hazardous Waste
Methyl alcohol 67-56-1	Toxic Ignitable

## 14. Transport Information

### DOT

**Proper Shipping Name** WINDSHIELD WASHER FLUID  
**Hazard Class** ORM-D  
**Description** COMBUSTIBLE LIQUID, AQUEOUS ALCOHOL SOLUTION  
**Emergency Response Guide Number** 131

### TDG

**UN-No.** UN1230  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Subsidiary Class** 6.1  
**Packing Group** II  
**Description** UN1230, METHANOL, 3 (6.1), II

### MEX

**UN-No.** UN1230  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Subsidiary Class** 6.1

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**Packing Group** II  
**Description** UN1230, METHANOL, 3 (6/1), II

**ICAO**

**UN-No.** UN1230  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Subsidiary Class** 6.1  
**Packing Group** II  
**Description** UN1230, METHANOL, 3 (6/1), II

**IATA**

**UN-No.** UN1230  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Subsidiary Class** 6.1  
**Packing Group** II  
**Description** UN1230, METHANOL, 3 (6/1), II

**IMDG/IMO**

**UN-No.** UN1230  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Subsidiary Class** 6.1  
**Packing Group** II  
**EmS-No.** F-E, S-D  
**Description** UN1230, METHANOL, 3 (6.1), II (43 °C C.C.)

**RID**

**UN-No.** UN12130  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Packing Group** II  
**Classification code** FT1  
**Description** UN1230, METHANOL, 3 (6/1), II  
**ADR/RID- Labels** 6.1

**ADR**

**UN-No.** UN1230  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Packing Group** II  
**Classification code** FT1  
**Tunnel Restriction code** (D/E)  
**Description** UN1230, METHANOL, 3 (6/1), II  
**ADR/RID- Labels** 6.1

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**ADN**

UN-No.	UN1230
Proper Shipping Name	METHANOL
Hazard Class	3
Packing Group	II
Classification code	FT1
Special Provisions	279, 802
Description	UN1230, METHANOL, 3 (6.1), II
Hazard Labels	6.1
Limited Quantity	1 L
Ventilation	VE01, VE02

## 15. Regulatory Information

### International Inventories

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

**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

Chemical Name	CAS No.	Weight - %	SARA 313 – Threshold Values %
Methyl alcohol - 67-56-1	67-56-1	10 - 30	1.0

### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden release of pressure hazard	No

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**Reactive Hazard** **No**

**CWA (Clean Water Act)**

This product does not contain any substances regulated as 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)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl alcohol 67-56-1	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Methyl alcohol - 67-56-1	Developmental

**US State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Methyl alcohol 67-56-1	X	X	X	X	X

**International Regulations**

**Mexico**

**National occupational exposure limits**

Component	Carcinogen Status	Exposure Limits
Methyl alcohol 67-56-1 (10-30)		Mexico: TWA= 200 ppm Mexico: TWA= 260 mg/m <sup>3</sup> Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m <sup>3</sup>

*Mexico - Occupational Exposure Limits - Carcinogens*

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**Canada**

**WHMIS Hazard Class**

B3 - Combustible liquid

D2B - Toxic materials



## 16. Other Information

<b>NFPA</b>	<b>Health Hazards 3</b>	<b>Flammability 2</b>	<b>Instability 0</b>	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazards 3 *</b>	<b>Flammability 2</b>	<b>Physical Hazard 0</b>	<b>Personal Protection X</b>

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**