



# SAFETY DATA SHEET

## 1. Identification

Product identifier	STARBRITE 0°F WINDSHIELD WASHER FLUID
Other means of identification	
Product code	31003, 31003G55
Recommended use	Cleaner
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Company name	Star brite Inc.

## 2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, dermal	Category 4
	Acute toxicity, inhalation	Category 4
	Specific target organ toxicity, single exposure	Category 1 (central nervous system, eyes)
OSHA defined hazards	Not classified.	

### Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin. Causes damage to organs (central nervous system, eyes).

### Precautionary statement

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Wash thoroughly after handling.

#### Response

In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Take off contaminated clothing and wash before reuse.

#### Storage

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

#### Disposal

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

Hazard(s) not otherwise classified (HNOC) None known.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Methanol	67-56-1	<24

#### 4. First-aid measures

<b>Inhalation</b>	Remove victim to fresh air. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.
<b>Ingestion</b>	Rinse mouth thoroughly. Call a physician or poison control center immediately. Do not induce vomiting without advice from medical personnel.
<b>Most important symptoms/effects, acute and delayed</b>	Harmful if inhaled, absorbed through skin, or swallowed. Irritation of eyes. Causes damage to organs (central nervous system, eyes).
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically. Symptoms may be delayed.  Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	Flammable liquid and vapor. By heating and fire, harmful vapors/gases may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Water spray should be used to cool containers.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation. Ventilate closed spaces before entering them. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike the spilled material, where this is possible. Do not allow material to contaminate ground water system.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).  Large Spills: Dike far ahead of spill for later disposal. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste for proper disposal.  Never return spills to original containers for re-use. Following product recovery, flush area with water. This material and its container must be disposed of as hazardous waste. Clean up in accordance with all applicable regulations.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Eliminate all sources of ignition. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Ground container and transfer equipment to eliminate static electric sparks. All handling to take place in well-ventilated area. Local exhaust is recommended. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep away from heat, sparks and open flame. Keep locked up. Store in a well-ventilated place. Store in a closed container away from incompatible materials. Do not store near heat sources or expose to high temperatures. Use care in handling/storage.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Methanol (CAS 67-56-1)	PEL	260 mg/m3 200 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	325 mg/m3 250 ppm
	TWA	260 mg/m3 200 ppm

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines** No exposure limits noted for ingredient(s).

#### US - California OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

#### US - Minnesota Haz Subs: Skin designation applies

Methanol (CAS 67-56-1) Skin designation applies.

#### US - Tennessee OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

#### US ACGIH Threshold Limit Values: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

#### US. NIOSH: Pocket Guide to Chemical Hazards

Methanol (CAS 67-56-1) Can be absorbed through the skin.

### Appropriate engineering controls

Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Use explosion-proof equipment. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Provide easy access to water supply or an emergency shower.

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

**Eye/face protection** Wear approved chemical safety glasses or goggles where eye exposure is reasonably probable.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal hazards** Not available.

### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** Blue liquid with alcohol-like odor.

**Physical state** Liquid.

**Form** Blue, liquid.

**Color** Blue.

<b>Odor</b>	Alcohol.
<b>Odor threshold</b>	Not available.
<b>pH</b>	8
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	120.0 °F (48.9 °C) Open Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Completely soluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Stable under normal temperature conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, sparks, flames, elevated temperatures. Ignition sources. Contact with incompatible materials.
<b>Incompatible materials</b>	Acids. Metals. Oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Skin contact</b>	Harmful in contact with skin.
<b>Eye contact</b>	Direct contact may irritate.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin. Causes damage to organs (central nervous system, eyes).
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### Information on toxicological effects

<b>Acute toxicity</b>	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Prolonged and repeated exposure to high vapor concentrations, skin absorption or ingestion of methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases reported of blindness, coma and death due to the ingestion of methanol. May cause mild central nervous system effects. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness.
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Components	Species	Test Results
Methanol (CAS 67-56-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	15800 mg/kg
<i>Inhalation</i>		
LC50	Rat	87.5 mg/l, 6 Hours
<i>Oral</i>		
LD50	Rat	5628 mg/kg
<b>Skin corrosion/irritation</b>	Harmful in contact with skin.	
<b>Serious eye damage/eye irritation</b>	Direct contact may irritate.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not classified.	
<b>Skin sensitization</b>	Not classified.	
<b>Germ cell mutagenicity</b>	Not classified.	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by NTP, IARC, or OSHA.	
<b>Reproductive toxicity</b>	Not classified.	
<b>Specific target organ toxicity - single exposure</b>	Causes damage to organs (central nervous system, eyes).	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not classified.	

## 12. Ecological information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Methanol (CAS 67-56-1)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) > 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours
<b>Persistence and degradability</b>	Not established.	
<b>Bioaccumulative potential</b>	Not established.	
<b>Partition coefficient n-octanol / water (log Kow)</b>		
Methanol (CAS 67-56-1)	-0.77	
<b>Mobility in soil</b>	Not established.	
<b>Other adverse effects</b>	Not established.	

## 13. Disposal considerations

<b>Disposal instructions</b>	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.	
<b>Hazardous waste code</b>	D001: Waste Flammable material with a flash point <140 °F	
<b>US RCRA Hazardous Waste U List: Reference</b>		
Methanol (CAS 67-56-1)	U154	
<b>Waste from residues / unused products</b>	Dispose in accordance with all local, state and federal regulations.	
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.	

## 14. Transport information

### DOT

Not regulated as dangerous goods.

This material is not subject to the requirements of 49CFR HMR per Section 173.150(e).

### IATA

**UN number** UN1992  
**UN proper shipping name** FLAMMABLE LIQUIDS, TOXIC, N.O.S. (Methanol)  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** 6.1  
**Packing group** III  
**Environmental hazards** No.  
**ERG Code** 3P  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### IMDG

**UN number** UN1992  
**UN proper shipping name** FLAMMABLE LIQUIDS, TOXIC, N.O.S. (Methanol)  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** 6.1  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** No.  
**EmS** F-E, S-D  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 15. Regulatory information

**US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Methanol (CAS 67-56-1) LISTED

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Methanol	67-56-1	<24

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Methanol (CAS 67-56-1)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

## US state regulations

### US. Massachusetts RTK - Substance List

Methanol (CAS 67-56-1)

### US. New Jersey Worker and Community Right-to-Know Act

Methanol (CAS 67-56-1)

### US. Pennsylvania Worker and Community Right-to-Know Law

Methanol (CAS 67-56-1)

### US. Rhode Island RTK

Methanol (CAS 67-56-1)

### US. California Proposition 65

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Methanol (CAS 67-56-1)

## International Inventories

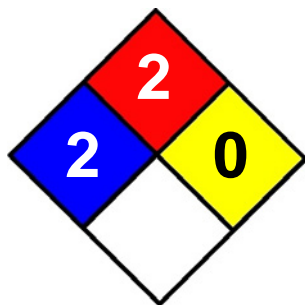
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	15-May-2014
Revision date	9-Sept-2018
Version #	01
Further information	HMIS® is a registered trade and service mark of the NPCA.
NFPA Ratings	



## References

ACGIH  
EPA: AQUIRE database  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents  
HSDB® - Hazardous Substances Data Bank  
IARC Monographs. Overall Evaluation of Carcinogenicity  
National Toxicology Program (NTP) Report on Carcinogens  
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

**Disclaimer**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Star brite assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Star brite assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.