1. Identification

Product identifier: STARBRITE 0°F WINDSHIELD WASHER FLUID

Other means of identification:
- Product code: 3100, 31003G55

Recommended use: Cleaner

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:
- Company name: Star brite Inc.
- Address: 4041 SW 47th Avenue, Fort Lauderdale, FL 33314 US
- Telephone: General Information: (954) 587-6280
- E-mail: Not available.
- Contact person: Vincent Waclawek
- Emergency phone number: CHEMTREC: (703) 527-3887 or (800) 424-9300

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.
  - 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
4. First-aid measures

**Inhalation**
Remove victim to fresh air. If breathing is difficult, give oxygen. Get medical attention.

**Skin contact**
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.

**Eye contact**
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.

**Ingestion**
Rinse mouth thoroughly. Call a physician or poison control center immediately. Do not induce vomiting without advice from medical personnel.

**Most important symptoms/effects, acute and delayed**
Harmful if inhaled, absorbed through skin, or swallowed. Irritation of eyes. Causes damage to organs (central nervous system, eyes).

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

**Suitable extinguishing media**
Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
Flammable liquid and vapor. By heating and fire, harmful vapors/gases may be formed.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions**
Move containers from fire area if you can do so without risk.

**Specific methods**
Water spray should be used to cool containers.

6. Accidental release measures

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

**Methods and materials for containment and cleaning up**
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.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

**Precautions for safe handling**
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.

**Conditions for safe storage, including any incompatibilities**
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)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol (CAS 67-56-1)</td>
<td>PEL</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol (CAS 67-56-1)</td>
<td>STEL</td>
<td>250 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol (CAS 67-56-1)</td>
<td>STEL</td>
<td>325 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>260 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values

ACGIH Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol (CAS 67-56-1)</td>
<td>15 mg/l</td>
<td>Methanol</td>
<td>Urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - 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.
Odor: Alcohol.
Odor threshold: Not available.

pH: 8

Initial boiling point and boiling range: Not available.

Flash point: 120.0 °F (48.9 °C) Open Cup

Evaporation rate: Not available.

Flammability (solid, gas) (flammability, explosive limits, vapor pressure, vapor density, relative density, solubility): Not available.

Upper/lower flammability or explosive limits:
- Flammability limit - lower (%): Not available.
- Flammability limit - upper (%): Not available.
- Explosive limit - lower (%): Not available.
- Explosive limit - upper (%): Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Relative density: Not available.

Solubility(ies):
- Solubility (water): Completely soluble in water.

Partition coefficient (n-octanol/water): Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

10. Stability and reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal temperature conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Heat, sparks, flames, elevated temperatures. Ignition sources. Contact with incompatible materials.


Hazardous decomposition products: No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure:
- Ingestion: Harmful if swallowed.
- Inhalation: Harmful if inhaled.
- Skin contact: Harmful in contact with skin.
- Eye contact: Direct contact may irritate.

Symptoms related to the physical, chemical and toxicological characteristics:
Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin. Causes damage to organs (central nervous system, eyes).

Information on toxicological effects:

Acute toxicity: 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.
## Components Species Test Results

### Methanol (CAS 67-56-1)

<table>
<thead>
<tr>
<th>Category</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>15800 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>87.5 mg/l, 6 Hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>5628 mg/kg</td>
</tr>
</tbody>
</table>

| **Skin corrosion/irritation** | Harmful in contact with skin. |
| **Serious eye damage/eye irritation** | Direct contact may irritate. |

| **Respiratory or skin sensitization** | Not classified. |
| **Respiratory sensitization** | Not classified. |
| **Skin sensitization** | Not classified. |
| **Germ cell mutagenicity** | Not classified. |
| **Carcinogenicity** | This product is not considered to be a carcinogen by NTP, IARC, or OSHA. |
| **Reproductive toxicity** | Not classified. |
| **Specific target organ toxicity - single exposure** | Causes damage to organs (central nervous system, eyes). |
| **Specific target organ toxicity - repeated exposure** | Not classified. |
| **Aspiration hazard** | 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.

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

### 13. Disposal considerations

#### Disposal instructions

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.

| **Hazardous waste code** | D001: Waste Flammable material with a flash point <140 °F |
| **US RCRA Hazardous Waste U List: Reference** | Methanol (CAS 67-56-1) U154 |
| **Waste from residues / unused products** | Dispose in accordance with all local, state and federal regulations. |
| **Contaminated packaging** | 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 No.
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.
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)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>&lt;24</td>
</tr>
</tbody>
</table>

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

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

*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

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