Section 1: Identification

Product Identifier
Detergent

Product Name
Trade Name: SPLASH De-Icer Windshield Wash -30°F 55 Gallon Drum
PN (Part number): 234955

Relevant identified uses of the substance or mixture and uses advised against
-Material for industrial applications
-Industrial and professional use
-Consumer end use

Details of the supplier of the safety data sheet

Manufacturer
SPLASH Products
51 E. Maryland Ave.
St. Paul, MN 55117
Phone: (651) 489-8211

Emergency telephone number
1-800-535-5053

Section 2: Hazard(s) Identification

OSHA/HCS status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture
Flammable Liquid, Category 3
Acute toxicity, Oral Category 5
Acute toxicity, Inhalation Category 5
Acute toxicity, Dermal Category 5
Specific Target Organ Toxicity (STOT) following single exposure, Category 1

GHS label elements

Hazard pictograms

Signal word-DANGER
Methanol

Hazard statements
Flammable liquid and vapor
May be harmful if swallowed
May be harmful if inhaled
May cause skin irritation
Causes damage to organs - liver, kidneys, central nervous system and optic nerve

Precautionary statements

Prevention
Do not breathe mist.
Wear protective gloves/protective clothing/eye protection/face protection.
Take off contaminated clothing and wash before use
Store away from heat and ignition sources
Keep away from oxidizing materials and strong acids

Response
IF SWALLOWED: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
IF ON SKIN (or hair): Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.
IF IN EYES: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Cold water may be used. Get medical attention immediately.
IF EXPOSED or CONCERNED:
Immediately call a POISON CENTER or a doctor/physician.

Storage
Store in a well-ventilated place.

Disposal
Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified
Product is stable.

Section 3: Composition/Information on Ingredients

Substance/mixture: Mixture
Chemical name: Methanol
Other means of identification: No

CAS number/other identifiers

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>32-35</td>
<td>67-56-1</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measurements

Description of necessary first aid measures

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Cold water may be used. Get medical attention immediately.

Inhalation: Bring accident victims out into the fresh air. Call a physician immediately in severe cases or if recovery is not rapid.
Skin contact: After contact with skin, wash immediately with plenty of water. Remove contaminated clothing and wash before reuse.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

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

**Potential acute health effects**

**Eye contact**
- Can cause irritation to eyes and mucous membranes.

**Inhalation**
- Sore throat, shortness of breath, coughing and congestion.

**Skin contact**
- Irritation, itching, dermatitis.

**Ingestion**
- Irritation to mucous membranes.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician**
- Exposure may aggravate acute or chronic asthma, emphysema and bronchitis.

**Specific treatments**
- N/A

**Protection of first-aiders**
- N/A

See toxicological information (Section 11)

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**Section 5: Fire Fighting Measures**

**Extinguishing media**

**Suitable extinguishing media**

- SMALL FIRE: Use DRY chemical powder, CO$_2$ or appropriate foam.
- LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Unsuitable extinguishing media**

- None known

**Specific hazards arising from the chemical**

- Vapors may travel back to ignition source. Closed containers exposed to heat may explode.

**Hazardous thermal decomposition products/Products of combustion**

- Products of combustion are carbon oxides (CO, CO$_2$).

**Special protective actions for fire fighters**

- Do not release runoff from fire control methods to sewers or waterways.

**Special protective equipment for fire-fighters**

- In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

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**Section 6: Accidental Release Measures**

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

**For non-emergency personnel**

- Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
Environmental precautions

Methods and materials for containment and cleaning up:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including: the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Precautions for safe handling

Protective measures, advice on general occupational hygiene and conditions for safe storage, including any incompatibilities:

Keep away from heat, sparks, open flames, hot surfaces.

– No smoking.

Keep container tightly closed. Ground or bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting, etc. equipment. Use only non-sparking tools. Take precautionary measures against static discharge. No not breathe dust, fumes, gas, mist, vapors or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing, and eye and face protection. Keep container tightly closed in a cool, well-ventilated place. Keep away from oxidizing materials and strong acids.

Store in a well-ventilated area. Keep cool. Keep in an area suitable for flammable liquids.

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>ACGIH (TWA)</th>
<th>ACGIH (STEL)</th>
<th>OSHA (TWA)</th>
<th>OSHA (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>200 ppm</td>
<td>250 ppm</td>
<td>200 ppm; 260 mg/m$^3$</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Appropriate engineering controls and Environmental exposure controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Individual protection measures

Hygiene measures

None

Eye/face protection: Use chemical safety goggles.

Skin protection

Hand protection and Body protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Other skin protection

Wash hands and other exposed areas with mild soap and water before eating or drinking.

Respiratory protection: No respiratory protection required under normal circumstances.

Respirator Type(s) [NIOSH Approved]: If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure
limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full face piece particulate respirator (NIOSH type N100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, Glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in Oxygen-deficient atmospheres.

Section 9: Physical and Chemical Properties

Appearance
Physical state: Red liquid
Odor: Alcohol
Odor threshold: Not determined
pH: 8.0
Specific Gravity: 0.949
Melting point: -32°C
Boiling point: 87°C
Flash point: 33°C
Evaporation rate (BuAc=1): 2.1
Flammability (solid, gas): Yes
Lower and upper explosive (flammable) limits: LEL 6%, UEL 36%
Vapor pressure: 128 hPa at 20°C
Vapor density (Air=1): 1.11
Solubility: Soluble in water
Partition coefficient: n-octanol/water: Not Established
Auto-ignition temperature: Not Applicable
Decomposition temperature: Not Established
Viscosity: Not determined
VOC%: 34

Section 10: Stability and Reactivity

Reactivity
Stable under recommended storage conditions.
Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
Will not occur.
Conditions to avoid
Temperatures above the flash point and avoid excessive heat, open flame or other sources of ignition.
Incompatible materials
Strong acids
Strong oxidizing agents
Strong reducing agents
Magnesium
Water-reactive materials
Hazardous decomposition products
Section 11: Toxicological Information

Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>Acute toxicity, oral (male rat)</td>
<td>LD50 = 7,300 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute toxicity, dermal</td>
<td>LD50 = 15,800 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute toxicity, inhalation (rat)</td>
<td>LC50: 87.5 mg/l 6.00 Hours</td>
</tr>
</tbody>
</table>

Summary Comments:

**Sensitization**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td></td>
<td>No evidence of sensitization effect</td>
</tr>
</tbody>
</table>

Summary Comments:

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td></td>
<td>No known carcinogenic effects</td>
</tr>
</tbody>
</table>

Summary Comments:

**Specific target organ toxicity (single exposure)**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Results</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>STOT-one-time exposure-oral</td>
<td>&gt;5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STOT-one-time exposure-dermal</td>
<td>&gt;20,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STOT-one-time exposure-inhalation</td>
<td>&gt;20,000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Summary Comments:

**Specific target organ toxicity (repeated exposure)**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Results</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>RfD-oral</td>
<td>0.5 mg/kg</td>
<td>Daily Exposure</td>
</tr>
</tbody>
</table>

Summary Comments:

Liver damage when RfD oral ingestion is exceeded daily.

**Aspiration hazard**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Results</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>Human exposure studies</td>
<td>Tolerance at 200 ppm/40 hours</td>
<td></td>
</tr>
</tbody>
</table>

Summary Comments:

Information on the likely routes of exposure

Inhalation may blur vision. Ingesting may irritate the gastrointestinal tract.

**Potential acute health effects**

Eye contact: Irritating to the eyes.

Inhalation: Acute exposure of humans to methanol by inhalation or ingestion may result in visual disturbances, such as blurred or dimness of vision, leading to blindness. Neurological damage, specifically permanent motor dysfunction, may also result.

Skin contact: Contact of skin with methanol can produce mild dermatitis in humans.

Ingestion: Tests involving acute exposure of rats, mice, and rabbits have demonstrated methanol to have low acute toxicity from oral exposure.
Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Eye irritation.
Inhalation: Blurred vision.
Skin contact: Skin irritation.
Ingestion: May irritate the gastrointestinal tract, cause nausea, and vomiting.

Potential chronic health effects (Methanol)

Carcinogenicity: No known carcinogens.
Mutagenicity: No data available.
Teratogenicity: No data available.
Developmental effects: No data available.
Fertility effects: No data available.

Numerical measures of toxicity

Acute toxicity estimates

Pure methanol is toxic by inhalation, in contact with skin and if swallowed.

Section 12: Ecological Information

Toxicity

Acute Fish toxicity: (Methanol)

LC50 - Oncorhynchus mykiss (rainbow trout) - 19,000 mg/l - 96 h
LC50 – Lepomis macrochirus (Bluegill) - 15,400 mg/l - 96 h

Acute toxicity for daphnia: (Methanol)

EC50 - Daphnia magna (Water flea) - 24,500 mg/l - 48 h
EC100 - Daphnia magna (Water flea) - 10,000 mg/l - 24 h

Acute toxicity for algae: (Methanol)

EC50 - Scenedesmus capricornutum (fresh water algae) - 22,000 mg/l - 96 h

Acute bacterial toxicity: (Methanol)

No data available.

Ecotoxicology Assessment: (Methanol)

Material is expected to be slightly toxic to aquatic life.

Persistence and degradability

Biodegradability: (Methanol)

When released into the soil, this material is expected to readily biodegrade. When released into water, this material is expected to readily biodegrade. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals.

Stability in water: (Methanol)

When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material is expected to leach into groundwater.

Photodegradation: (Methanol)

No data available

Volutility (Henry's Law constant): (Methanol)

Partition coefficient n-octanol/water (log K<sub>ow</sub>) = -0.77

Bioaccumulative potential

Bioaccumulation: (Methanol)

Bioaccumulation Cyprinus carpio (Carp) - 72 d at 20°C
Bioconcentration factor (BCF): 1.0

Mobility in soil: (Methanol)

Distribution among environmental compartments:
When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material is expected to leach into groundwater.

Other adverse effects:
When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into the air, this material is expected to exist in the aerosol phase with a short half-life. When released into air, this material is expected to have a half-life between 10 and 30 days. When released into the air, this material is expected to be readily removed from the atmosphere by wet deposition.

Section 13: Disposal Considerations

Disposal methods
Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

Section 14: Transport Information

UN Number: UN1993
UN Proper Shipping Name: Flammable Liquids, N.O.S. (METHANOL)
Transport hazard Class(es): 3
Packing Group: III

Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)
Transport Hazard Class(es): 3

Maritime Transport IMDG/GGVSea
Transport Hazard Class(es): 3, 6.1
Marine Pollutant: No

Air Transport ICAO-TI and IATA-DGR
Transport Hazard Class(es): 3, 6.1

Section 15: Regulatory Information

Chemical Inventory Status-Part 1

<table>
<thead>
<tr>
<th>Ingredient (CAS#)</th>
<th>TSCA</th>
<th>EC</th>
<th>Japan</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol (67-56-1)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Chemical Inventory Status-Part 2

<table>
<thead>
<tr>
<th>Ingredient (CAS#)</th>
<th>Korea</th>
<th>Canada</th>
<th>Canada</th>
<th>Philippines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol (67-56-1)</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Federal, State & International Regulations-Part 1

<table>
<thead>
<tr>
<th>Ingredient (CAS#)</th>
<th>RQ</th>
<th>TPQ</th>
<th>List Chemical</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol (67-56-1)</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
Federal, State & International Regulations - Part 2

<table>
<thead>
<tr>
<th>Ingredient (CAS#)</th>
<th>CERCLA</th>
<th>261.33</th>
<th>8(d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol (67-56-1)</td>
<td>5000 lb.</td>
<td>U154</td>
<td>No</td>
</tr>
</tbody>
</table>

Chemical Weapons Convention: No
TSCA 12b: No
CDTA: No

**SARA 311/312:**
- Acute: Yes, Chronic: Yes, Fire: Yes, Pressure: No, Reactivity: No
- Mixture/Liquid
- Australian Hazchem Code: 2PE
- Poison Schedule: No information found

History

Date of issue: 09/11/15
Version: 2a
Revised Sections(s): UN proper shipping name change
Prepared by: Andrew Gioino, SPLASH PRODUCTS

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.