SOCAR CHEMICAL, LLC

Safety Data Sheet
All-Season Windshield Wash & De-Icer Concentrate

Version 1.0 • Date of issue: 2023-10-05

SECTION 1: Identification

GHS Product identifier

Product name	All-Season Windshield Wash & De-Icer Concentrate

Recommended use of the chemical and restrictions on use
Concentrated fluid for windshield wash systems on automobiles

Supplier's details

Name	Socar Chemical, LLC
Address	2609 Rutherford Rd Greenville SC 29609 USA
Telephone	(864) 244-5068
email	cs@socarchemical.com

Emergency phone number

CHEMTREC 1(800) 424-9300
CCN695199

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, dermal, Cat. 3
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 3
- Specific target organ toxicity (single exposure), Cat. 1

GHS label elements, including precautionary statements

Pictograms

1. Skull and crossbones; 2. Health hazard

Signal word **Danger**

Hazard statement(s)
Toxic if swallowed
Toxic in contact with skin
Harmful if inhaled
Causes damage to organs

Precautionary statement(s)

Prevention	Avoid breathing fume/gas/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing.
Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Call a POISON CENTER/doctor. Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local, state, and federal regulations.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Methanol

Concentration	39 - 39 % (weight)
EC no.	200-659-6
CAS no.	67-56-1
Index no.	603-001-00-X

- Flammable liquids, Cat. 2
- Acute toxicity, inhalation, Cat. 3
- Acute toxicity, dermal, Cat. 3
- Acute toxicity, oral, Cat. 3
- Specific target organ toxicity (single exposure), Cat. 1

H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin

H331	Toxic if inhaled
H370	Causes damage to organs [organs, route]
SCLs/M-factors/ATEs	*
	STOT SE 1; H370: C ≥ 10 %
	STOT SE 2; H371: 3 % ≤ C < 10 %

2. Water

Concentration	60 - 60 % (weight)
EC no.	231-791-2
CAS no.	7732-18-5

Trade secret statement (OSHA 1910.1200(i))
*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Get medical attention if symptoms occur.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell.
If swallowed	Rinse mouth. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a poison center or doctor if you feel unwell. Acute and delayed symptoms and effects: Harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Most important symptoms/effects, acute and delayed
Not available

Indication of immediate medical attention and special treatment needed, if necessary
Not available

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Use extinguishing media appropriate for surrounding fire.

Specific hazards arising from the chemical
Methanol: Carbon oxides

Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of in accordance with local and national regulations. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling
Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. For precautions see section 2.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Methanol (CAS: 67-56-1 EC: 200-659-6)
PEL-TWA (Inhalation): 200 ppm, 260 mg/m3 (OSHA)
Headache. Nausea. Dizziness. Eye damage Substances for which there is a Biological Exposure Index or Indices
Danger of cutaneous absorption

PEL-TWA (Inhalation): 200 ppm (Cal/OSHA)

PEL-ST (Inhalation): 250 ppm (Cal/OSHA)

PEL-C (Inhalation): 1000 ppm (Cal/OSHA)

PEL-ST (Inhalation): 250 ppm (NIOSH)

REL-TWA (Inhalation): 200 ppm (NIOSH)

TWA (Inhalation): 200 ppm; 262 mg/m3; Australia (AU/SWA)
Other advisory: Sk

STEL (Inhalation): 250 ppm; 328 mg/m3; Australia (AU/SWA)
Other advisory: Sk

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Blue liquid
Color	Light Blue
Odor	Mild acohol odor
Odor threshold	Mild
Melting point/freezing point	-20 °F
Boiling point or initial boiling point and boiling range	170 °F
Flammability	Not applicable
Lower and upper explosion limit/flammability limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	7-8
Kinematic viscosity	Not available
Solubility	100% in water
Partition coefficient n-octanol/water (log value)	1.1
Vapor pressure	Not available
Evaporation rate	5.9
Density and/or relative density	Not available
Relative vapor density	Not available

Particle characteristics
Not applicable

Supplemental information regarding physical hazard classes
Not applicable

Further safety characteristics (supplemental)
Not applicable

SECTION 10: Stability and reactivity

Reactivity
None under normal use conditions.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal use conditions.

Conditions to avoid
None under normal use conditions.

Incompatible materials

Methanol: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products

Water: In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
// ----- From the Suggestion report (10/05/2023, 8:37 AM) ----- //
The ATE (dermal) of the mixture is: 769.23 mg/kg bw

// ----- From the Suggestion report (10/05/2023, 8:37 AM) ----- //
The ATE (gas inhalation) of the mixture is: 1794.87 ppmV

// ----- From the Suggestion report (10/05/2023, 8:37 AM) ----- //
The ATE (dusts-mists inhalation) of the mixture is: 1.28 mg/l

// ----- From the Suggestion report (10/05/2023, 8:37 AM) ----- //
The ATE (oral) of the mixture is: 256.41 mg/kg bw

Skin corrosion/irritation
Based on available data, classification data are not met

Serious eye damage/irritation
Based on available data, classification data are not met

Respiratory or skin sensitization
Based on available data, classification data are not met

Germ cell mutagenicity
Based on available data, classification data are not met

Carcinogenicity
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Based on available data, classification data are not met

Specific target organ toxicity (STOT) - single exposure
May cause drowsiness or dizziness

Specific target organ toxicity (STOT) - repeated exposure
No data available

Aspiration hazard
No data available

Additional information

Methanol: *TOXICITY:
typ. dose mode specie amount units other
LDLo orl hmn 340 mg/kg
TCLo ihl hmn 86000 mg/m3
LDLo unr man 868 mg/kg
LD50 orl rat 5628 mg/kg
LC50 ihl rat 64000 ppm/4H
LD50 ipr rat 9540 mg/kg
LD50 orl mus 870 mg/kg
LCLo ihl mus 50 gm/m3/2H
LDLo ipr mus 120 mg/kg
LD50 scu mus 9800 mg/kg
LD50 ivn mus 5673 mg/kg
LDLo orl dog 7500 mg/kg
LDLo orl mky 7000 mg/kg
LCLo ihl mky 1000 ppm
LDLo skn mky 500 mg/kg
LCLo ihl cat 44000 mg/m3/6H
LDLo ivn cat 118 mg/kg

LDLo orl rbt 7500 mg/kg
LD50 skn rbt 20 gm/kg
LDLo orl man 13 gm/kg

*AQTX/TLM96: >1000 ppm

*SAX TOXICITY EVALUATION:
THR = A skin, eye irritant. A human inhalation IRRITANT. A human eye irritant. HIGH human oral; HIGH intraperitoneal, intravenous; MODERATE inhalation, oral, skin; LOW skin, oral, inhalation, intraperitoneal, subcutaneous. Methyl alcohol possesses distinct narcotic properties. Coma from massive exposures may last as long as 2-4 days.

*CARCINOGENICITY: Not available

*MUTATION DATA:
test lowest dose | test lowest dose
---------- ---------- | ---------- ----------
mmo-smc 12 pph | cyt-smc 500 umol/tube
cyt-grh-par 3000 ppm | dni-hmn:lym 300 mmol/L
dnd-rat-orl 10 umol/kg | cyt-mus-orl 1 gm/kg
cyt-mus-ipr 75 mg/kg | mma-mus:lym 7900 mg/L

*TERATOGENICITY:
Reproductive Effects Data:
TDLo: orl-rat 7500 mg/kg (17-19D preg)
TCLo: ihl-rat 20000 ppm/7H (1-22D preg)
TDLo: ipr-mus 5 gm/kg (5D male)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z
Transitional Limit: PEL-TWA 200 ppm [610]
Final Limit: PEL-TWA 200 ppm (skin); STEL 250 ppm [610]
ACGIH: TLV-TWA 200 ppm (skin); STEL 250 ppm [610]
NIOSH Criteria Document: Recommended Exposure Limit to this compound-air:
PEL-TWA 200 ppm; Ceiling Limit 800 ppm/15M [610]
NFPA Hazard Rating: Health (H): 1
Flammability (F): 3
Reactivity (R): 0
H1: Materials only slightly hazardous to health (see NFPA for details).
F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA:
Skin and Eye Irritation Data:
eye-hmn 5 ppm
skn-rbt 500 mg/24H MOD
eye-rbt 40 mg MOD
Review: Toxicology Review-5
Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable liquid
DOT-IMO: Flammable liquid; Label: Flammable liquid,

Poison
Status: "NIOSH Manual of Analytical Methods, 3rd Ed."
Reported in EPA TSCA Inventory, 1983
EPA Genetic Toxicology Program, January 1984
EPA TSCA Section 8(e) Status Report 8EHQ-0378-0108
Meets criteria for proposed OSHA Medical Records Rule

SECTION 12: Ecological information

Toxicity
Methanol
LC50 - Lepomis macrochirus (bluegill) - 15.400 mg/l - 96 h
NOEC - Oryzias latipes - 7.900 mg/l - 200 h
EC50 - Daphnia magna (water flea) - >10,000 mg/l - 48 h
EC50 - Selenastrum capricornutum (green algae) - 22,000 mg/l - 96 h

SECTION 13: Disposal considerations

Disposal methods

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

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components
State of California to cause birth defects or other reproductive harm.
Methanol
CAS-No. 67-56-1

Chemical name: Methanol
CAS number: 67-56-1
03/16/2012 - Developmental toxicity

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian Domestic Substances List (DSL)
Chemical name: Methanol

CAS: 67-56-1

Chemical name: Water
CAS: 7732-18-5

Massachusetts Right To Know Components
Chemical name: Methanol
CAS number: 67-56-1

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components
Chemical name: Methanol
CAS number: 67-56-1

Water
CAS-No. 7732-18-5

Pennsylvania Right To Know Components
Chemical name: Methanol
CAS number: 67-56-1

Water
CAS-No. 7732-18-5

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

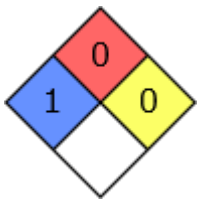
SARA 311/312 Hazards
No SARA Hazards

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

HMIS Rating

All-Season Windshield Wash & De-Icer Concentrate	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

NFPA Rating



SECTION 16: Other information

Date of last revision: October 2023

Further information/disclaimer
To the best of the knowledge of the preparer(s), the information contained herein is reliable and accurate as of this date. However, accuracy, suitability, or completeness is not guaranteed, and no warranties of any type - either express or implied are provided. The information contained herein relates only to this specific product.

Preparation information
SDS Prepared By: Andrew Snow