

SECTION 1: Identification

1.1. Product identifier

Product name : -45°C Windshield washer Anti-Freeze

1.2. Recommended use and restrictions on use

Recommended uses and restrictions : For vehicular windshield cleaning

1.3. Supplier

RW Consumer Products Ltd
200 Omand's Creek Blvd
Winnipeg, Manitoba, R2R 1V7 - Canada
T (204) 786-6873

1.4. Emergency telephone number

Emergency number : CANUTEC (613) 996-6666 (Transport only)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Flam. Liq. 3	H226	Flammable liquid and vapour.
Acute Tox. 3 (Oral)	H301	Toxic if swallowed.
Acute Tox. 3 (Dermal)	H311	Toxic in contact with skin.
Acute Tox. 3 (Inhalation:vapour)	H331	Toxic if inhaled.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Repr. 1B	H360	May damage fertility or the unborn child.
STOT SE 1	H370	Causes damage to organs.
STOT SE 3	H336	May cause drowsiness or dizziness.

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS CA) : Danger

Hazard statements (GHS-CA) :

H226 - Flammable liquid and vapour.
H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H360 - May damage fertility or the unborn child.
H370 - Causes damage to organs.

Precautionary statements (GHS-CA) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.

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P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take action to prevent static discharges.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308+P311 - IF exposed or concerned: Call a doctor.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P330 - Rinse mouth.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311 - Call a POISON CENTER or doctor.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Methanol	Methyl alcohol / Carbinol / Methyl hydroxide / Wood alcohol / METHYL ALCOHOL	CAS-No.: 67-56-1	45 - 70

Comments : *Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

First-aid measures after skin contact : If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash clothing before re-using. Call a poison center or a doctor if you feel unwell.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Toxic if inhaled. May cause drowsiness or dizziness.
Symptoms/effects after skin contact : Toxic in contact with skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion : Toxic if swallowed. May cause shortness of breath, acidosis, severe abdominal pain, visual disturbances often proceeding to permanent blindness, prolonged coma, or death. Onset of symptoms may be delayed 1-30 hours (usually 12-18 hours).
Chronic symptoms : May damage fertility or the unborn child. Causes damage to organs.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry chemical. Carbon dioxide. Foam. Water spray.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use water jet.

5.3. Specific hazards arising from the hazardous product

Fire hazard : Flammable liquid and vapour. Products of combustion may include, and are not limited to: oxides of carbon. Formaldehyde.
Explosion hazard : May form flammable/explosive vapour-air mixture.

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Remove all sources of ignition. Use only non-sparking tools.

6.2. Methods and materials for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe dust, fume, gas, mist, spray, vapours. Do not swallow. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take action to prevent static discharges. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Handle and open container with care. Wear personal protective equipment.
- Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.
- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep out of the reach of children. Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. Protect containers from physical damage. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Methanol (67-56-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	250 ppm
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
USA - ACGIH - Biological Exposure Indices	
BEI	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: end of shift (background, nonspecific)

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear suitable gloves resistant to chemical penetration
Eye protection:
Wear eye/face protection
Skin and body protection:
Wear suitable protective clothing

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Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available.
Colour	: Blue
Odour	: No data available
Odour threshold	: 2000 – 8800 ppm
pH	: 8.7
Relative evaporation rate (butylacetate=1)	: 4.6 (methanol)
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: -45 °C / -49 °F
Boiling point	: 80 °C / 176 °F
Flash point	: 33 °C / 91 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour pressure	: No data available
Relative vapour density at 20°C	: 1.1 (methanol)
Relative density	: 0.924 – 0.930
Solubility	: Water: completely soluble
Partition coefficient n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: Lower explosion limit: 6 g/m ³ (methanol) Upper explosion limit: 36 g/m ³ (methanol)

Methanol (67-56-1)

Boiling point	64.7 °C Atm. press.: 1013 hPa
Flash point	9.7 °C Atm. press.: 1013 hPa
Auto-ignition temperature	464 °C
Vapour pressure	169.27 hPa Temp.: 25 °C

9.2. Other information

Saturation concentration	: 166 g/m ³ @ 20 °C / 68 °F (methanol)
VOC content	: 100 %

SECTION 10: Stability and reactivity

Reactivity	: No dangerous reactions known under normal conditions of use.
Chemical stability	: Stable under normal conditions. May form flammable/explosive vapour-air mixture.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Sources of ignition. Heat. Incompatible materials. Direct sunlight.

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Incompatible materials	: Strong oxidizing agents. Alkali metals. Nitric acid. sulphuric acid. Aldehydes. Acid chlorides. Hydrogen peroxide. Mineral acids. Metals.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon. Formaldehyde. May release flammable gases.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Toxic if swallowed.
Acute toxicity (dermal)	: Toxic in contact with skin.
Acute toxicity (inhalation)	: Toxic if inhaled.

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ATE CA (oral)	209.82 mg/kg bodyweight
ATE CA (Dermal)	629.459 mg/kg bodyweight
ATE CA (vapours)	6.295 mg/l/4h

Methanol (67-56-1)	
LD50 oral rat	1187 – 2769 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	15840 mg/kg
LC50 inhalation rat	22500 ppm (Exposure time: 8 h)
ATE CA (oral)	100 mg/kg bodyweight
ATE CA (Dermal)	300 mg/kg bodyweight
ATE CA (Gases)	700 ppmv/4h
ATE CA (vapours)	3 mg/l/4h
ATE CA (dust,mist)	0.5 mg/l/4h

Skin corrosion/irritation	: Not classified. pH: 8.7
Serious eye damage/irritation	: Causes serious eye irritation. pH: 8.7
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: May damage fertility or the unborn child.

Methanol (67-56-1)	
NOAEL (animal/male, F0/P)	< 1000 mg/kg bodyweight Animal: mouse, Animal sex: male

STOT-single exposure : Causes damage to organs. May cause drowsiness or dizziness.

Methanol (67-56-1)	
STOT-single exposure	Causes damage to organs. May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified.

Methanol (67-56-1)	
Animal studies and expert judgment for classification	False

Symptoms/effects after inhalation : Toxic if inhaled. May cause drowsiness or dizziness.

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Symptoms/effects after skin contact	: Toxic in contact with skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: Toxic if swallowed. May cause shortness of breath, acidosis, severe abdominal pain, visual disturbances often proceeding to permanent blindness, prolonged coma, or death. Onset of symptoms may be delayed 1-30 hours (usually 12-18 hours).
Chronic symptoms	: May damage fertility or the unborn child. Causes damage to organs.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

Methanol (67-56-1)	
LC50 - Fish [1]	15400 mg/l Test organisms (species): <i>Lepomis macrochirus</i>
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [static])
EC50 96h - Algae [1]	≈ 22000 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
NOEC (chronic)	208 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'

12.2. Persistence and degradability

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Persistence and degradability	Not established.

12.3. Bioaccumulative potential

-45°C Windshield washer Anti-Freeze	
Bioaccumulative potential	Not established.

Methanol (67-56-1)	
BCF - Fish [1]	< 10
Partition coefficient n-octanol/water	-0.77

12.4. Mobility in soil

Methanol (67-56-1)	
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12.5. Other adverse effects

Ozone	: Not classified.
Other information	: No other effects known.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

In accordance with TDG

14.1. UN number

UN-No. (TDG) : UN1230

14.2. UN proper shipping name

Proper Shipping Name (TDG) : METHANOL (SOLUTION)

14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG) : 3 (6.1)

Hazard labels (TDG) : 3, 6.1



14.4. Packing group

Packing group (TDG) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

TDG

UN-No. (TDG) : UN1230

TDG Special Provisions : 43 - Despite section 2.1 of Part 2 (Classification), these dangerous goods are assigned to this classification based on human experience.

Explosive Limit and Limited Quantity Index : 1 L

Excepted quantities (TDG) : E2

Passenger Carrying Road Vehicle or Passenger : 1 L

Carrying Railway Vehicle Index

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. National regulations

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

SECTION 16: Other information

Issue date : 10-27-2022

Revision date : 10-27-2022

Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



Safety Data Sheet (SDS), Canada - Nexreg 2022

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