

Clean Revolution Advanced All Season Windshield Wiper Fluid

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Clean Revolution Advanced All Season Windshield Wiper Fluid
Brand	Clean Revolution

1.3 Recommended use of the chemical and restrictions on use:

For use as a windshield wiper fluid. For external use only.

1.4 Supplier's details

Name	Clean Revolution
Address	5055 East 41st Avenue Denver, CO 80216
Telephone	323-405-7637
email	hello@mycleanrevolution.com

1.5 Emergency phone number

1-800-262-8200

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)

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

2.2 GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H332	Harmful if inhaled

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H370

Causes damage to organs [organs, route]

Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P264

Wash 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.

P301+P310

IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P302+P352

IF ON SKIN: Wash with plenty of water/...

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P311

IF exposed or concerned: Call a POISON CENTER/doctor/...

P311

Call a POISON CENTER/doctor

P312

Call a POISON CENTER/doctor if you feel unwell.

P321

Specific treatment (see ... on this label).

P330

Rinse mouth.

P361+P364

Take off immediately all contaminated clothing and wash it before reuse.

P403+P233

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

P405

Store locked up.

P501

Dispose of contents/container as per local regulations

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Methanol

Concentration

15 - 35 % (volume)

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. Non-Hazardous Ingredients

Concentration

80 % (volume)

CAS no.

Mixture

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SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Remove the victim to fresh air. If breathing has stopped administer artificial respiration. If breathing is difficult, have medical personnel administer oxygen. Get immediate medical attention.
In case of skin contact	Remove contaminated clothing. Immediately wash contacted area thoroughly with soap and water. Get medical attention.
In case of eye contact	Immediately flush eyes with large amounts of water. Get medical attention if irritation persists.
If swallowed	Seek immediate medical attention. Immediately call the local poison control center or go to an emergency department. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person

4.2 Most important symptoms/effects, acute and delayed

Inhalation may cause headache, dizziness, drowsiness, nausea, visual impairment, narcosis and unconsciousness. Toxic if swallowed, inhaled or absorbed through the skin. May cause gastrointestinal pain, nausea and vomiting. Ingestion, inhalation or absorption of methanol through the skin may cause central nervous system effects and damage to the optic nerve. Poisonous if swallowed. Prolonged ingestion of ethylene glycol may cause kidney damage based on animal data.

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

Seek immediate medical attention for ingestion, inhalation or skin contact.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water fog, carbon dioxide, alcohol foam or dry chemical. Cool fire exposed containers with water.

5.2 Specific hazards arising from the chemical

Flammable liquid. Methanol-water mixtures will burn unless very dilute. Flame is invisible in daylight. Vapors are heavier than air and may flow along surfaces to distant ignition sources and flashback. Burning may produce carbon monoxide and carbon dioxide.

5.3 Special protective actions for fire-fighters

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources. Ventilate area. Wear appropriate protective clothing and equipment (See Section 8).

6.3 Methods and materials for containment and cleaning up

Collect with absorbent material and place in a container suitable for flammable waste.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

May be fatal or cause blindness if swallowed! Do not swallow. Avoid eye and skin contact. Avoid breathing vapors or mists. Use only with adequate ventilation. Wash exposed skin thoroughly with soap and water after use. Flammable liquid! Keep away from heat, sparks, open flames and all other sources of ignition. Do not smoke during use.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, open flames and all other sources of ignition. Store in a cool, well-ventilated area.

Specific end use(s)

Use only as a windshield wiper fluid

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

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

PEL [Methyl alcohol] (Inhalation): 200 ppm; US (US/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

: Use general ventilation or local exhaust as required to maintain exposures below the occupational exposure limits.

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

Eye/face protection

Splash proof goggles are recommended to prevent eye contact.

Skin protection

Chemical resistant gloves such as butyl rubber or Viton where contact is possible.

Body protection

Appropriate protective clothing as needed to minimize skin contact.

Respiratory protection

For operations where the exposure limit is exceeded a NIOSH approved supplied air respirator or positive pressure self-contained breathing apparatus is recommended. Organic vapor cartridge respirators are not recommended for methanol vapor exposures. Equipment selection depends on contaminant type and concentration. Select and use in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Appearance	Clear Orange Liquid
Odor	Odorless/light alcohol odor
Odor threshold	160-690 ppm (Methanol)
Melting point/freezing point	<-27 F (<-33 C)

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Boiling point or initial boiling point and boiling range	180-182F (82-84 C)
Flammability	Flammable
Lower and upper explosion limit/flammability limit	LEL: 6.0% Methanol, UEL 36% Methanol
Flash point	>100 F
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
pH	10
Kinematic viscosity	Not determined
Solubility	Water 100%
Partition coefficient n-octanol/water (log value)	Not determined
Vapor pressure	Not determined
Evaporation rate	Not determined
Density and/or relative density	0.97
Relative vapor density	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity: Normally unreactive

10.2 Chemical stability: Stable

10.3 Possibility of hazardous reactions: Reaction with strong oxidizers will generate heat

10.4 Conditions to avoid: Heat, sparks, flames and all other sources of ignition

10.5 Incompatible materials: Strong bases, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds

10.6 Hazardous decomposition products: Combustion will produce carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

The ATE (dermal) of the mixture is: 857.14 mg/kg bw

The ATE (gas inhalation) of the mixture is: 2000 ppmV

The ATE (dusts-mists inhalation) of the mixture is: 1.43 mg/l

The ATE (oral) of the mixture is: 285.71 mg/kg bw

Skin corrosion/irritation: Prolonged contact with the skin may cause redness and defatting of the skin and absorption of harmful amounts of methanol.

Serious eye damage/irritation: Liquid, vapors or mist may cause discomfort in the eye with persistent conjunctivitis, seen as slight excess redness or conjunctiva. Serious corneal injury is not anticipated.

Respiratory or skin sensitization

May cause irritation of the nose and throat with headache, particularly from mists. High vapor concentrations may produce nausea, vomiting, headache, dizziness, drowsiness, tingling, numbness and shooting pains in the hands and forearms, and visual disturbances.

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Germ cell mutagenicity: None of the components of these products is listed as a mutagen or suspected mutagen by IARC, NTP, ACGIH or OSHA.

Carcinogenicity: None of the components of these products is listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive toxicity: None of the components of these products is listed as a reproductive toxin or suspected reproductive toxin by IARC, NTP, ACGIH or OSHA.

Specific target organ toxicity (STOT) - single exposure

Contains methanol. May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, headache, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects, including irregular eye movements, convulsions and coma. Visual effects from methanol include blurred vision, double vision, changes in color perception, restriction of visual fields and complete blindness. Cardiac failure and pulmonary edema may develop.

With massive overdoses of methanol, liver, kidney and heart muscle injury have been described. There may be a delay of 6-12 hours between swallowing methanol and the onset of signs and symptoms. Ingestion of moderate quantities of methanol also produces metabolic acidosis. 60-200 ml of methanol is a fatal dose for most adults. Ingestion of as little as 10 ml may cause blindness.

Specific target organ toxicity (STOT) - repeated exposure

Prolonged or repeated inhalation exposure may produce signs of central nervous system involvement, including nausea, vomiting, headache, ringing in the ears, dizziness, vertigo, cloudy and double vision. Prolonged overexposure at levels of 800-1000 ppm may result in severe eye damage. Prolonged or repeated skin contact may cause skin sensitization and associated dermatitis in some individuals. Ethylene glycol has been found to cause birth defects in laboratory animals. The significance of this finding to humans has not been determined.

Aspiration hazard

May cause irritation of the nose and throat with headache, particularly from mists. High vapor concentrations may produce nausea, vomiting, headache, dizziness, drowsiness, tingling, numbness and shooting pains in the hands and forearms, and visual disturbances.

SECTION 12: Ecological information

Toxicity

LC50 Fathead minnows 29,400 mg/L/96 hr.

EC50 Daphnia magna >10,000 mg/L/24 hr.

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: Estimated BCF of 3 - Potential for bioconcentration in aquatic organisms is low.

Mobility in soil: Very high mobility in soil.

Results of PBT and vPvB assessment: None

Endocrine disrupting properties: None

Other adverse effects: None

SECTION 13: Disposal considerations

Empty remaining contents.

Do not reuse empty containers.

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Dispose of unused product

Recycle, incinerate, treat or landfill in accordance with all local, state/provincial and federal regulations.

SECTION 14: Transport information

DOT (US)

UN Number: UN1992

Class: 3

Packing Group: III

Proper Shipping Name: UN1992. Flammable Liquid, toxic, n.o.s (contains Methanol), PG III, Limited Quantity

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

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SECTION 15: Regulatory information

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

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Methanol

CAS number: 67-56-1

New Jersey Right To Know Components

Common name: METHYL ALCOHOL

CAS number: 67-56-1

Pennsylvania Right To Know Components

Chemical name: METHANOL

CAS number: 67-56-1

California Proposition 65 Chemicals List

WARNING: This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

US EPA TSCA public inventory

Chemical name: Methanol

CAS number: 67-56-1

Massachusetts Right To Know Components (105 CMR 670)

Chemical name: METHANOL

CAS number: 67-56-1

California Prop. 65 components

Chemical name: Methanol

CAS number: 67-56-1

SECTION 16: Other information

NFPA Rating: Fire = 3

Health = 3

Reactivity = 0

SDS Preparation date: January 9, 2025

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16.1 Further information/disclaimer

This SDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations.

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