SAFETY DATA SHEET

Windshield Washer Fluid

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Chemical Name:	Clear Choice Windshield Washer Fluid
Product Description/ Recommended Use:	Windshield Washer Fluid (30% Methanol by Volume)
Chemical Family:	Alcohol, Formula: CH_3H_2O
Manufacturer:	Great Western Glycol 9009 Quince St, Unit C Henderson, CO 80640 303-227-9900 EMERGENCY 800-633-8253

SECTION 2 - HAZARD IDENTIFICATION

Classification:	Flammable Liquid, Category 3 Acute Toxicity, Category 1 Reproductive Toxicity, Category 1B Target Organ Toxicity, Repeat Cat. 2 Aspiration Hazard, Category 1
Signal Word:	Danger
Pictogram(s):	
Hazard Statement(s):	H226 Flammable liquid and vapor. H300 Fatal if swallowed. H360 May damage fertility or the unborn child (fetotoxic and teratogenic effects). H373 May cause damage to the eyes and central nervous system through prolonged or repeated exposure. H330 May be fatal if swallowed and enters airways

Precautionary Statement(s):	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces – no smoking. P233 Keep container tightly closed. P260 Do not breathe mist/vapors/spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke while using this product. P271 Use in a well ventilated area. P280 Wear protective gloves/protective clothing. Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303 If on skin (or hair) rinse thoroughly with water. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P331 Do NOT induce vomiting. P361 Take off immediately all contaminated clothing. P370 In case of fire use properly rated extinguisher. P378 Use water spray, carbon dioxide, dry chemical, or foam extinguisher. Storage: P403 Store in a well-ventilated place. P405 Store locked up. P403 + P235 Store in a well-ventilated place. Keep cool. Disposal: P501 Dispose of contents/container in accordance with local, national, and international regulations.
Primary route(s) of Exposure:	Eye, Skin, Inhalation, Ingestion
Eye Contact:	Expected to cause mild to moderate irritation of the eye if exposed to liquid or in high vapor concentrations. May cause irritation, tearing, or burning of the eyes.
Skin Contact:	Expected to be mildly irritating to the skin. Symptoms of irritation may include redness, drying, and cracking of the skin.
Ingestion:	Toxic or fatal if ingested. Symptoms of methanol poisoning include heachaches, sleepiness, nausea, confusion, intoxication, loss of consciousness, digestive and visual disturbances, coma or death.
Inhalation:	Inhalation of this product may be harmful or fatal. Symptoms may include headaches, sleepiness, nausea, confusion, loss of consciousness, digestive and visual disturbances and even death.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO	WT. RANGE %
*Methanol	67-56-1	25 - 27%
Dye	Not applicable	<1%
Water	7732-18-5	Balance

*Hazardous according to OSHA (1910.1200) or one or more state Right-to-Know lists.

SECTION 4 – FIRST AID MEASURES

Eyes:	Remove contact lenses, if worn. Rinse with running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.

Skin:	Remove affected clothing and launder before reuse. Wash affected area for at least 15 minutes with soap and running water. Prolonged or repeated exposure may cause defatting of the skin – symptoms include redness, dryness, cracking
Ingestion:	Swallowing methanol is potentially lethal. Symptoms of methanol poisoning may be delayed up to 24 hours. Do NOT induce vomiting. If ingested, do not wait for symptoms to develop – Seek medical attention IMMEDIATELY.
Inhalation:	Remove exposed person to fresh air immediately. Restore or assist breathing, if necessary. Get medical attention immediately – symptoms of exposure may include giddiness, intoxication, CNS depression, or coma
Note to Physician:	Treat for methanol poisoning - Inhibit oxidation of methanol by administering ethanol or fomepizole. Increase formic acid metabolism by administering IV folinic acid. Treat acidosis with IV sodium bicarbonate.
Caution:	If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	CO2, dry chemical, water spray, aqueous film forming foam (alcohol resistant) type with 3% or 6% foam proportioning system.
Specific Fire Hazards (Hazardous Combustion Products):	Burns with a clean flame that is difficult to see in certain conditions. Vapors may travel long distances along the ground and may be ignited from distant sources.
Special Protective Equipment/ Precautions for Firefighters:	Methanol burns with a clean, clear flame that is almost invisible in daylight. Stay upwind! Isolate and restrict area access. Concentrations of greater than 25% methanol in water can be ignited. Use fine water spray or got to control fire spread and cool adjacent structures of containers. Contain fire control water for later disposal. Fire fighters must wear full face, positive pressure, self-contained breathing apparatus or airline and appropriate protective firefighting clothing as per NFPA. Not that methanol fires may require proximity suits. Take care not to walk through any spilled chemical.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions/ Protective Equipment/ Emergency Procedures:	Flammable liquid – can burn without a visible flame. Do not walk through spilled material. Keep unnecessary personnel away. Wear appropriate personal protective equipment for emergency. Ventilate if released in a confined area. Eliminate sources of ignition if it is safe to do so.
Methods and Materials for Containment/ Clean Up:	Use an explosion-proof pump to remove bulk liquid. Residual liquid can be absorbed on inert material or flushed with plenty of water. Use only non-sparking tools.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling:	Use only in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Use appropriate containment to avoid environmental contamination. Vapors are heavier than air and will tend to accumulate in low areas. Avoid use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, intoxication, nervous system depression or methanol poisoning. Avoid breathing dust, fume, gas, mist, vapors, or spray. Avoid skin contact. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of the product. Do no weld, heat, or pressurize empty containers. Do not re-use containers. Dispose of packaging or containers in accordance with local, regional, national, and international regulations.

Conditions for Safe Storage and Incompatibility:	Do not store or handle at elevated temperatures. Store away from all sources of ignition. Avoid strong oxidizers and strong acids or bases. Contact with these materials may cause violent or explosive reactions. May react with metallic aluminum or magnesium to generate explosive hydrogen gas.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Methanol (CAS # 67-56-1) OSHA TWA: 200 ppm or 260mg/m3 OSHA STEL: 250 ppm or 325mg/m3 ACGIH TWA: 200 ppm ACGIH STEL: 250 ppm
Appropriate Engineering Controls:	Use in a well ventilated area. Local and general ventilation should keep methanol vapor concentration below permissible limits. Vapors are heavier than air and will tend to accumulate in low-lying areas.
Personal Protective Equipment (PPE)	The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Eyes/Face: Safety glasses. Face shield or chemical splash goggles when splashing may occur. If possible, remove contact lenses before handling Gloves: Use polyethylene or neoprene gloves. Clothing: Use chemical resistant pants and jackets, preferably of butyl or nitrile rubber Respirator: Respiratory protection is not normally needed. Where exposure potential exceeds recommended limits, use a NIOSH/OSHA approved supplied air respirator as recommended. Locate the nearest eyewash station and safety shower before handling this product. Limit exposure whenever possible. Consider flammability and always use non-sparking tools. Wash thoroughly after handling this product.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Blue Liquid
Odor:	Alcoholic Odor
Odor Threshold:	Not determined
pH:	Not determined
Melting Point/ Freezing Point:	-15 ºF
Initial Boiling Point:	180 ºF
Flash Point:	101 ºF
Evaporation Rate:	5.8
Upper/ Lower Flammability Limits:	UEL = 36/ LEL = 6
Specific Gravity (Water=1):	.959
Vapor Pressure (at 20 ºC):	41.5 at 68 ºF
Vapor Density (Air=1):	1.1
Relative Density:	0.957 mg/cm^3 at 60.1 ºF
Solubility:	Complete
Partition Coefficient:	Not determined
Auto-Ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Not determined
NOTE:	These physical properties are typical values for this product.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity/ Chemical Stability:	Material is normally stable at ambient temperatures and pressures. Has low vapor pressure – vapors may form explosive mixtures with air!
Possibility of Hazardous Reactions:	Normally unreactive, but try to avoid strong oxidizers or bases.
Conditions to Avoid:	Flammable liquid and vapor – keep away from strong oxidizers, acids, bases as well as heat/sparks/open flames/hot surfaces
Incompatible Materials:	Oxidizers and strong acids or bases. Contact with these materials may cause violent or explosive reactions. May react with metallic aluminum or magnesium to generate explosive hydrogen gas.
Hazardous Decomposition Products:	Primarily oxidizes to carbon dioxide in normal combustion conditions. In lower oxygen environments carbon monoxide, formaldehyde, or formic acid may be formed.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure:	Skin/Eye Absorption Ingestion Inhalation
Symptoms of Exposure:	Expected to cause mild to moderate irritation of the eye if exposed to liquid or in high vapor concentrations. May cause irritation, tearing, or burning of the eyes. Expected to be mildly irritating to the skin. Symptoms of irritation may include redness, drying, and cracking of the skin. Methanol may cause irritation of mucous membranes, especially if concentrations exceed 1000 ppm. Methanol can be absorbed through the skin and presents a toxicity hazard similar to that of inhalation or ingestion. Inhalation of this product may be harmful or fatal. Symptoms may include headaches, sleepiness, nausea, confusion, loss of consciousness, digestive and visual disturbances and even death. If exposure exceeds recommended levels, or if you feel unwell – seek medical help for methanol poisoning. If left untreated, may cause permanent blindness, nervous system effects, or death. Toxic or fatal if ingested. Symptoms of methanol poisoning include headaches, sleepiness, nausea, confusion, intoxication, loss of consciousness, digestive and visual disturbances, coma or death. Seek medical attention immediately for methanol poisoning. If ingested, DO NOT wait for symptoms to develop before getting treatment.
Target Organ Toxicity:	Product is toxic to organs: Central nervous system, eyes. Methanol poisoning produces metabolic acidosis (formic acid) that may damage the liver, kidneys, or other organs.
Carcinogenicity:	NTP: Not Listed IARC: Not Listed OSHA: Not Listed ACGIH: Not Listed

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Freshwater Fish: Acute LD50 = 63 g/l (96h) Freshwater Invertebrates: Acute LD50 = 120g/l (48h); 33g/l (24h) Algae: Not determined Saltwater Fish: Not determined Saltwater Invertebrates: Not determined Miscellaneous: Study of methanol on sewage sludge bacteria reported a retardation of bacterial digestion at concentrations of 0.5%.

Persistence and Degradability:	This product easily biodegrades in water and soil. Products of biodegradation are carbon dioxide and water.
Bioaccumulative Potential:	Product is very mobile in soil and water and is volatile – it is not expected to bioaccumulate.
Mobility in Soil:	Product has high mobility in soil, and evaporates easily at environmentally relevant temperatures
Other Adverse Effects:	Not determined.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal:

All disposal practices must be in accordance with local, regional, national, and international regulations. Store material for disposal as indicated in Section 7. Disposal by controlled incineration or by secure land fill may be acceptable – review applicable regulations or regulatory bodies before making disposal decisions.

Contaminated Containers or Packaging:
Empty containers are likely to contain flammable vapors or explosive mixtures of vapor and air. Do NOT weld, cut, or grind empty containers. Rinse empty containers with water and dispose of in accordance with local, regional, national, and international regulations

SECTION 14 – TRANSPORT INFORMATION

DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol)
Hazard Class:	3
UN Number:	UN1993
Packing Group:	III
Label:	Flammable Liquid (Class 3)
IMDG	UN 1993, Flammable liquids, n.o.s. (Methanol), Class 3, PG III Stowage Cat. “A” (on deck or under deck)
ICAO/IATA	UN 1993, Flammable liquids, n.o.s. (Methanol), Class 3, PG III Passenger Aircraft – less than 60L Cargo Aircraft – less than 220L

SECTION 15 – REGULATORY INFORMATION

Federal Regulations:

OSHA’s Hazard Communication Rule, 29 CFR 1910.1200:	Based on our hazard evaluation, the following ingredient in this product is hazardous: Methanol – acutely toxic and systemic effects, flammable liquid.
Toxic Substances Control Act (TSCA):	The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).
Resource Conservation and Recovery Act (RCRA), 40 CFR 261 Subpart C & D:	If this product becomes a waste, it does meet the criteria of a hazardous waste (Ignitibility D001).
Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15	This product does not contain ingredients covered by the Clean Water Act.

Clean Air Act, 40 CFR 60, Section 111, 40 CFR 61, Section 112:	This product does not contain ingredients covered by the Clean Air Act.
Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) 40 CFR 117, 302:	This product contains Methanol, a Reportable Quantity (RQ) substance if 5,000 pounds of product are released, it requires notification to the NATIONAL RESPONSE CENTER, WASHINGTON, D.C. (1-800-424-8802).
Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III -Section 302, 311, 312, and 313:	Section 302-Extremely Hazardous Substances (40 CFR 355); This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance. Sections 311 AND 312-Material Safety Data Sheet Requirements (40 CFR 370); Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories: XX Immediate (acute) health hazard XX Delayed (chronic) health hazard XX Fire Hazard -- Sudden release of pressure hazard -- Reactive hazard Section 311, submittal of MSDS's or a list of product names to the local emergency planning commission, state emergency response commission and local fire departments is required after October 17, 1987 if you have: -10,000 pounds or more of a hazardous substance, or -500 pounds or the threshold planning quantity, whichever is less, of an extremely hazardous substance.
Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III -Section 313- List of Toxic Chemicals (40CFR 372):	This product contains the following ingredient(s) (with CAS # and % range) which appear(s) on the List of Toxic chemicals: Methanol 67-56-1 30

State Regulations:

California Proposition 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
State Right to Know Laws:	Regulated in NJ, PA, MA.

SECTION 16 – OTHER INFORMATION

Date of Preparation:	January 1, 2005
Date of Revision:	May 1, 2015
HMIS Rating:	2 Health 2 Flammability 0 Reactivity 0 Special

This product Safety Data Sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

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