

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: MAXXIMUM PERFORMANCE Summer Windshield Washer Fluid

Product Number: IFL-010

Recommended Use: Windshield Washer Solvent

Company Identification

Innovative Fluids, LLC.

415 Squires Drive

Milan, Michigan 48160

Product Information 1-800-889-2110

Emergency Number: 1-800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS LABEL ELEMENTS: The product is classified and labeled according to the Globally Harmonized System (GHS)

PHYSICAL STATE: Blue Liquid

ODOR: Mild Alcohol Odor

CLASSIFICATION(S): Flammable Liquid, Category 3
Acute Toxicity, Oral, Category 4
Acute Toxicity, Dermal, Category 4
Acute Toxicity, Inhalation Category 4
Specific Organ Toxicity, Single Exposure, Category 1

SYMBOL(S):



SIGNAL WORD:

DANGER!

HAZARD STATEMENT(S):

Flammable liquid and vapor. Harmful if swallowed. Harmful if contact with skin. Harmful if inhaled. Causes damage to organs.



Hazard Rating		
	HMIS	NFPA
Health:	1	1
Flammability:	2	2
Reactivity:	0	0
Personal Protection:	B	-

PRECAUTIONARY STATEMENT(S):

GENERAL PRECAUTIONARY

STATEMENT(S): Keep out of reach of children
Read label before use

PREVENTION PRECAUTIONARY STATEMENT(S):

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Wash affected area thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray.

RESPONSE PRECAUTIONARY STATEMENT(S):

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
Take off contaminated clothing and wash before reuse.
Wash contaminated clothing before reuse.
Specific treatment (see Section 4 of this Safety Data Sheet).
In case of fire: Use Alcohol-resistant foam, Carbon dioxide (CO2) Dry Chemical for extinction.

STORAGE PRECAUTIONARY STATEMENT(S):

Store in a well-ventilated place. Keep cool. Store away from sources of ignition, heat, sparks and flame. No smoking.

DISPOSAL PRECAUTIONARY STATEMENT(S):

Dispose of contents/containers to an approved waste disposal facility in accordance with all applicable laws and regulations.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION:

No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
Methanol	0-20%	67-56-1
Water	80-100%	7732-18-5
Blue Dye	< 1%	Proprietary

4. FIRST AID MEASURES

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.



EYE CONTACT:

Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

SKIN CONTACT:

Wash with plenty of soap and water. Remove immediately all contaminated clothing. Rinse skin with water/shower.

INGESTION:

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN:

Treat symptomatically and provide general supportive measures.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point (Typical) Method: 130 °F (54 °C)

FLAMMABLE LIMITS IN AIR

LEL: No Data Available UEL:
No Data Available

SUITABLE EXTINGUISHING MEDIA:

Alcohol-resistant foam, Carbon dioxide (CO₂) Dry Chemical.

UNSUITABLE EXTINGUISHING MEDIA:

High volume water jet

SPECIFIC EXTINGUISHING METHODS:

Use a water spray to cool fully closed containers.

SPECIFIC HAZARDS DURING FIRE FIGHTING:

Do not allow run-off from fire fighting to enter drains or water courses.
Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:

Wear self-contained breathing apparatus for fire-fighting if necessary.
In the event of fire, wear self-contained breathing apparatus.

HAZARDOUS COMBUSTION PRODUCTS:

No hazardous combustion products are known

FURTHER INFORMATION:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

NFPA FLAMMABLE AND COMBUSTIBLE LIQUIDS CLASSIFICATION:

Flammable Liquid Class II



6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Use personal protective equipment. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Material can create slippery conditions.

ENVIRONMENTAL PRECAUTIONS:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes

or drains inform respective authorities. Local authorities should be advised if significant spill-ages cannot be contained.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

ADVICE ON SAFE HANDLING:

Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure-obtain special instructions before use. Avoid contact with skin and eyes. Take precautionary measures against static discharges.

Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Keep away from heat.

CONDITIONS FOR SAFE STORAGE:

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations /working materials must comply with the technological safety standards.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

Material	Source	Type	ppm
Methyl Alcohol	OSHA PO	TWA	200
Methyl Alcohol	OSHA POL	STEL	250
Methyl Alcohol	ACGIH	TWA	200
Methyl Alcohol	ACGIH	STEL	250
Methyl Alcohol	NIOSH REL	TWA	200
Methyl Alcohol	NIOSH REL	ST	250
Methyl Alcohol	OSHA Z-1	TWA	200

ENGINEERING CONTROLS:

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure guidelines, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

PERSONAL PROTECTIVE EQUIPMENT:

EYE / FACE PROTECTION REQUIREMENTS:

Eye wash bottle with pure water. Tightly fitting safety goggles or safety glasses. Ensure that eye wash stations and safety showers are close to the workstation location.

SKIN PROTECTION REQUIREMENTS:

Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

RESPIRATORY PROTECTION REQUIREMENTS:

No personal respiratory protective equipment normally required. In the case of vapor formation use a respirator with an approved filter.

PROTECTIVE CLOTHING:

Wear suitable protective equipment. Avoid contact with skin. When using do not eat, drink or smoke.

GENERAL COMMENTS:

Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.



9. PHYSICAL AND CHEMICAL PROPERTIES

FORM	Liquid
ODOR	Mild, alcohol-like
COLOR	Blue
VOC CONTENT	0 - 20%
VAPOR PRESSURE	41.8 mmHg @ 20°C (68°F)
BOILING POINT	98-99°C (208–210°F)
FLASH POINT	111°F
SOLUBILITY IN WATER	Complete
SPECIFIC GRAVITY	0.9770 Reference substance: (water = 1)
EVAPORATION RATE	Greater than Butylacetate (Butylacetate = 1)
UEL	36.5%(V)
LEL	6%(V)
DENSITY	8.14 lbs
BULK DENSITY.....	No data available
AUTOIGNITION TEMPERATURE.....	No data available
THERMAL DECOMPOSITION	No data available

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Not expected to occur

INCOMPATIBILITY WITH OTHER MATERIALS:

Strong Acids, Alkalines, Oxidizers. Avoid contact with Aluminum, Zinc, or other reactive metals.

DECOMPOSITION: Not Determined.

CONDITIONS TO AVOID:

Exposure to excessive heat, open flames and sparks. Avoid conditions that favor the formation of excessive mists and/or flames.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Components:

67-56-1:

Acute oral toxicity:

LD50 (rat): 100 mg/kg
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity: LC50 (rat): 5 mg/l

Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity:

LD50 (rabbit): 300 mg/kg
Assessment: The component/mixture is toxic after single contact with skin.



SKIN CORROSION/IRRITATION:

Components:

67-56-1:

Species: rabbit

Result: No skin irritation **SERIOUS EYE DAMAGE/EYE IRRITATION**

Components:

67-56-1:

Species: rabbit

Result: No eye irritation **RESPIRATORY OR SKIN SENSITISATION**

Components:

67-56-1:

Test Type:

Maximisation Test (GPMT)

Species: guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GERM CELL MUTAGENICITY

Components:

67-56-1:

Genotoxicity in vitro:

Test Type: DNA damage and/or repair

Metabolic activation: with and without metabolic activation

Result: Ambiguous

Genotoxicity in vivo:

Test Type: In vivo micronucleus test

Test species: mouse (male and female) Cell type:

Bone marrow

Application Route: Intraperitoneal Exposure time:

Single

Dose: 0, 1920, 3200, 4480 mg/kg Result: negative

Germ cell mutagenicity-Assessment:

Tests on bacterial or mammalian cell cultures did not show mutagenic effects. **CARCINOGENICITY:**

Components:

67-56-1:

Carcinogenicity - Assessment:

Suspected human carcinogens

REPRODUCTIVE TOXICITY:

Components:

67-56-1:

Effects on fertility:

Test Type: Two-generation study

Species: rat, male and female

Application Route: Inhalation

Dose: 0, 0.013, 0.13, 1.3 mg/L

Duration of Single Treatment: 20 h

General Toxicity - Parent: NOAEC: 1.3 mg/l General Toxicity F1:

NOAEC: 0.13 mg/l Fertility: NOAEC: 1.3 mg/l

Symptoms: Effects on postnatal development. Result: Animal testing did not show any effects on fertility.

Effects on fetal development:

Species: rat
 Application Route: inhalation (vapour) Dose: 0, 6.65, 13.3, 26.6 mg/L
 Duration of Single Treatment: 20 d Frequency of Treatment: 7 hr/day
 General Toxicity Maternal: NOAEC: 13.3 mg/L
 Teratogenicity: NOAEC: 6.65 mg/L
 Result: Teratogenic effects.

Reproductive toxicity - Assessment:

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

Product: No data available
Components:
67-56-1:

EXPOSURE:

Exposure routes: -
Target Organs: Assessment: Eyes, Central nervous system
 Causes damage to organs., The sub-stance or mixture is classified as specific target organ toxicant, single exposure, category 1.

Remarks:

-

STOP - repeated exposure

Product:
Components: No data available
67-56-1:
 No data available

Repeated dose toxicity
Components:
67-56-1:

Species: mouse, male and female NOAEL: 1.3 mg/l
 Application Route: Inhalation Exposure time: 12 months
 Number of exposures: Continuous Dose: 0, 0.013, 0.13, 1.3 mg/L

ASPIRATION TOXICITY:
Further information

Product:
Remarks:

Solvents may degrease the skin.



12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Components:

67-56-1:

Toxicity to fish:

LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h
Test Type: static test

Toxicity to algae:

EC50 (Scenedesmus capricornutum (fresh water algae)): 22,000 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to bacteria:

IC50 (activated sludge): > 1,000 mg/l
End point: Growth rate
Exposure time: 3 h
Test Type: Static
Method: OECD Test Guideline 209

PERSISTENCE AND DEGRADABILITY:

Components:

67-56-1:

Biodegradability:

aerobic
Result: Readily biodegradable.
Biodegradation: 72 %
Remarks: Readily biodegradable

Biochemical Oxygen Demand (BOD):

Chemical Oxygen Demand (COD):

BOD/COD:

Stability in water:

600 - 1,120 mg/g
1,420 mg/g
BOD: 600 - 1120 COD: 1420
Hydrolysis: 91 % at 19 °C (72 h)
Remarks: Hydrolyses on contact with water. Hydrolyses readily.

BIOACCUMULATIVE POTENTIAL:

Components:

67-56-1:

Bioaccumulation:

Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 1.0
Exposure time: 72 d
Temperature: 20 °C
Concentration: 5 mg/l
Remarks: This substance is not considered to be very persistent nor very bioaccumulating (vPvB).



**Partition coefficient n-octanol/
water:**

log Pow: -0.77

**Mobility in soil: Other adverse
effects:**

No data available No
data available

PRODUCT:

Regulation: Protection f

40 CFR Protection of Environment; Part 82
o Stratospheric Ozone - CAA Section 602 Class I
Sub-stances

Remarks:

This product neither contains, nor was
manufactured with a Class I or Class II ODS as defined by the
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A,
App.A + B).

Additional ecological information: No data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

WASTE FROM RESIDUES:

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with all applicable local, state and federal regulations. Dispose of wastes in an approved waste disposal facility.

14. CONTAMINATED PACKAGING:

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

15. TRANSPORTATION INFORMATION

PRODUCT LABEL:..... Maximum Performance Summer Windshield Washer Fluid

D. O.T SHIPPING:..... UN1230, Methanol, 3, III

IMDG:..... UN1230, Methanol, 3, III

IATA:..... UN1230, Methanol, 3, III



15. REGULATORY INFORMATION

REGULATORY LISTS SEARCHED:

01 = CANADIAN DISCLOSURE LIST
03 = TITLE V OF THE CLEAN AIR ACT 05 = SARA
TITLE III - SECTION 313 07 = CA PROPOSITION 65

02 = CERCLA Hazardous Substances 04 = SC
Toxic Air Pollutants List 06 = SARA Title III -
Section 312 08 = RCRA Hazardous Substances

OSHA HAZARDS:

Combustible liquid, Toxic by Carcinogen, ingestion, Toxic by skin absorption,
Teratogen, Reproductive hazard

WHMIS CLASSIFICATION:

B3: Combustible liquid
D1A: Toxic Material Causing Immediate and Serious Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity

Methanol
CAS-No.: 67-56-1
Component RQ (lbs): 5000
Calculated product RQ (lbs): 5000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 HAZARDS: Fire Hazard
Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard

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

SARA 313:..... The following components are subject to reporting
levels established by SARA Title III, Section 313:
67-56-1 Methanol 30-40%

CLEAN AIR ACT:

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
67-56-1 Methanol

This product does not contain any chemicals listed under the U.S. Clean Air Act Section
112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed
under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):
67-56-1 Methanol



CLEAN WATER ACT:

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US STATE REGULATIONS:

California Prop 65

- U.S. - California - Proposition 65 - Carcinogens List: No
- U.S. - California - Proposition 65 - Reproductive Toxicity – Female: Yes
- U.S. - California - Proposition 65 - Developmental Toxicity: No
- U.S. - California - Proposition 65 - Reproductive Toxicity – Male: No
- No significance risk level (NSRL): N/A

Massachusetts Right To Know List 67-56-1 Methanol

Pennsylvania Right To Know List 67-56-1 Methanol

New Jersey Right To Know List 67-56-1 Methanol

The components of this product are reported in the following inventories: 1907/2006 (EU):

n (Negative listing) (Not in compliance with the inventory)

United States TSCA Inventory:

y (positive listing) (On TSCA Inventory)

Canadian Domestic Substances List (DSL):

y (positive listing) (All components of this product are on the Canadian DSL.)

Japan. ENCS - Existing and New Chemical Substances Inventory:

y (positive listing) (On the inventory, or in compliance with the inventory)

Korea. Korean Existing Chemicals Inventory (KECI):

y (positive listing) (On the inventory, or in compliance with the inventory)

16. OTHER INFORMATION

REASON FOR ISSUE..... Revised
 APPROVAL DATE..... March 17, 2020
 SUPERCEDES DATE..... March 16, 2020
 RTN NUMBER..... IFL-010(Official Copy)

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%

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