



Safety Data Sheet

Section 1: Product and Company Identification

PRODUCT NAME: DuraMAX Summer Windshield Washer Solvent

Manufacture's Name: RelaDyne LLC
8280 Montgomery Road, Suite 101
Cincinnati, OH 45236 888-830-3156

Date Created: May 19, 2015

Emergency Telephone No.: INFOTRAC 800-535-5053

Section 2: Hazardous Identification

Hazardous Component:	Methanol	Percent: 6	
CAS Number:	67-56-1	ACGIH TLV:	440 PPM
OSHA PEL:	400 PPM	Manufacturer PEL:	Not Established
Hazardous Component:	2-Butoxyethanol	Percent: 5	
CAS Number:	111-76-2	ACGIH TLV:	25 PPM-Skin
OSHA Pel:	25 PPM-Skin	Manufacturer PEL:	Not Established



Section 3: Composition Information On Ingredients

Component	CAS No.	Weight Percent Range	Hazardous in Blend
WATER	7732-18-5	50 – 90	No
METHYL ALCOHOL	67-56-1	20 – 40	Yes
NONYLPHENOL ETHOXYLATED	127087-87-0	90 - 100	Yes

This product meets the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Hazards:

Flammable/Combustible Acute Toxin Chronic Toxin Carcinogen
Pressure Reactive Exposure Limit Target Organ Other

Other: No information available.

Section 4: First Aid Measures

Probable Routes of Exposure: Ingestion, inhalation, skin absorption.

Ingestion: Call physician, hospital emergency room, or Poison Control Center immediately.

Inhalation: Remove victim to fresh air at once. Restore and/or support breathing as required. Keep victim warm and at rest. Get medical attention as soon as possible.

Eye Contact: Wash eyes immediately with running water, lifting the lower and upper lids occasionally. Rinse for 7-15 minutes. Get medical attention as soon as possible.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water; apply skin lotions. If skin irritation persists, get medical attention.

Effects of Overexposure: Methanol is a poisonous, narcotic chemical that can affect the body through inhalation, ingestion, and perhaps prolonged or repeated skin contact. Absorption by inhalation or ingestion is rapid and excretion is much slower than for ethyl alcohol, resulting in delayed effects or compounding of effects by repeated exposure. It is important to be aware that after ingestion or inhalations, initial symptoms may be only that of mild intoxication, but may become severe after 12 to 18 hours. Toxic effects are exerted upon the central nervous system, especially the optic nerve. Ingestion can produce blindness; 100-120 ml can be fatal. Symptoms of overexposure include dizziness, visual impairment, nausea, respiratory failure, muscular in coordination and narcosis. Prolonged or repeated skin contact may cause dermatitis, erythema, scaling, and possibly systemic effects.

Section 5: Fire Fighting Measures

Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam, and water mist or fog. Use a blanketing effect to smother fire.

Special Fire Fighting Procedures & Equipment: Firefighters should use self-contained breathing apparatus with full face-piece operated in pressure-demand or other positive pressure mode, and wear full protective clothing.

Unusual Fire And Explosion Hazards: Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks or flames and can react vigorously with oxidizing agents.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

1. Remove all ignition sources.
2. Provide adequate ventilation.
3. Small quantities may be absorbed on paper towels. Evaporate in a safe place (such as a fume hood). Burn paper in an approved incinerator or open pit away from buildings and people. Large quantities can be collected and atomized in a suitable combustion chamber. Spills in sensitive areas may be diluted and flushed to ground with a water spray. Do not flush to sewer or other confined space.
4. Spills of 5,000 pounds or more must be reported to the National Response Center (800-424-8802) pursuant to the Comprehensive Environmental Response, Compensation and Liability Act.

Waste Disposal Methods: Absorb in vermiculate, dry sand, earth or a similar material and dispose in a secured sanitary landfill. Atomize in a suitable combustion chamber; dispose of via a licensed waste solvent disposal company, or reclaim via filtration and distillation procedures.

Clean Water Act Requirements: N/A

Resource Conservation and Recovery Act (RCRA) Requirements: Methanol is assigned a hazardous waste number of U154 under § 3001. It is considered a toxic waste.

Section 7: Handling And Storage

Precautions to be Taken in Handling and Storing: Ground and electrically interconnect containers for transfer. Use spark proof tools. No smoking in areas of use or storage. Avoid prolonged or repeated breathing of vapor or contact with skin. Avoid contact with eyes. Contact lenses should not be worn while handling Methanol. Eye wash stations and safety showers should be available in areas of use. Do not ingest!

Other Precautions: Provide pre-placement medical exams for industrially exposed workers, with emphasis on neurological and visual functions, liver and kidney systems. Provide suitable training to those working with Methanol. Monitor the workplace. Keep records.

Handling: Fire extinguishers should be kept readily available.

Storage: Do not transfer to unmarked containers. Store in a cool, well ventilated area in closed containers away from heat, sparks, open flame or oxidizing materials.

Empty Container Warnings:

Drums: Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed. Empty containers retain product residue and can be dangerous. 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.

Plastic: Do not reuse this container. Empty container may retain product residues.

Section 8: Exposure Control/Personal Protection

Component	CAS No.	Exposure Limit
METHYL ALCOHOL	67-56-1	OSHA – PEL: TWA 200 ppm ACGIH – TLV: TWA 200 ppm ACGIH – TLV: STEL 250 ppm

Personal Protective Equipment:

Protective Gloves: Rubber

Eye Protection: Safety glasses

Respiratory Protection (Specify Type): Any air-supplied respirator or self-contained breathing apparatus. Only NIOSH or MSHA approved equipment should be used.

Other: Impervious aprons, boots, and face shields (8-inch minimum) where splashing can occur.

Ventilation:

Local Exhaust: To meet TLV requirements; 100 fpm minimum should be used where vapor exposure is likely.

Mechanical (General): Controls must be spark proof and explosion-proof

Section 9: Physical And Chemical Properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications.

Color:	Clear green
Physical State:	Liquid
Odor:	Slight
Odor Threshold:	No data available
pH:	7.7
Vapor Pressure:	17.6 (mm HG)

<u>Vapor Density:</u>	1.2 (Air = 1)
<u>Boiling Point:</u>	212°F
<u>Solubility in Water:</u>	100 (W/V%)
<u>Melting Point:</u>	Not applicable
<u>Evaporation Rate:</u>	0.3 (BuAc = 1)
<u>Specific Gravity:</u>	0.989 (Water = 1)
<u>Flash Point:</u>	102°F (closed cup)
<u>Flammable Limits (Percent by Volume):</u>	Lower 6.7 / Upper 36.5
<u>Autoignition:</u>	No data available

Section 10: Stability And Reactivity

Stability: Stable

Incompatibility (Materials To Avoid): Strong oxidizing agents such as nitrates, perchlorates or Sulfuric acid.

Hazardous Decomposition Products: Toxic gases and vapors (i.e., carbon monoxide, formaldehyde) may be released in a Methanol fire.

Hazardous Polymerization: WILL NOT OCCUR

Conditions To Avoid: Heat, strong oxidizing agents.

Section 11: Toxicological Information

Primary Eye Irritation: Moderate irritation to Draize test in rabbits (methanol).

Primary Skin Irritation: Moderate irritation to Draize test in rabbits (methanol).

Acute Dermal Toxicity: No information available.

Subacute Dermal Toxicity: No information available.

Dermal Sensitization: No information available.

Inhalation Toxicity: LC50 (rat) = 64,000 ppm (4 hours) (methanol).

Inhalation Sensitization: No information available.

Oral Toxicity: LD50 (rat) = 5628 mg/kg (methanol).

Mutagenicity: No information available.

Carcinogenicity: Methanol is not considered to be carcinogenic by the International Agency of Research on Cancer (IARC), the National Toxicology Program (NTP) or OSHA.

Reproductive and Developmental Toxicity: No information available.

Teratogenicity: No information available.

Immunotoxicity: No information available.

Other: No information available.

Section 12: Ecological Information

Aquatic Toxicity: No information available.

Terrestrial Toxicity: No data available.

Chemical Fate and Transport: No information available.

Other: No information available.

Section 13: Disposal Considerations

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Waste Disposal Methods: Waste material may be landfilled or incinerated at an approved facility. Materials should be recycled if possible.

Section 14: Transport Information

U.S. Department of Transportation (DOT)
Highway / Rail (Bulk): Not Applicable
Highway / Rail (Non-Bulk): Consumer Commodity, ORM-D

For US shipments, US DOT law requires the shipper to determine the proper shipping description of the material that is being shipped. The shipping information and description contained in this section may not be suitable for all shipments of this material, but may help the shipper determine the proper shipping description for a particular shipment.

International Information:

Vessel: IMDG Regulated: X IMDG Not Regulated: --
Air: ICAO Regulated: X ICAO Not Regulated: --

Other: No information available.

Section 15: Regulatory Information

Regulatory Lists Searched: The components listed in Section 2 of this SDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.

Health & Safety: 10 – IARC carcinogen, 11 – NTP carcinogen, 12 – OSHA carcinogen, 15 – ACGIH TLV, 16 – OSHA PEL, 17 – NIOSH exposure limit, 20 – US DOT Appendix A, Hazardous substances, 22 – FDA 21 CFR Total food additives, 23 – NFPA 49 or 325.

Environmental: 30 – CAA 1990 Hazardous air pollutants, 31 – CAA Ozone depleters, 33 – CAA HON rule, 34 – CAA Toxic substance for accidental release prevention, 35 – CAA Volatile organic compounds (VOC's) in SOCM, 41 – CERCLA /SARA Section 302 extremely hazardous substances, 42 – CERCLA / SARA Section 313 emissions reporting, 43 – CWA Hazardous substances, 44 – CWA Priority pollutants, 45 – CWA Toxic pollutants, 46 – EPA Proposed test rule for hazardous air pollutants, 47 – RCRA Basis for listing - Appendix VII, 48 – RCRA waste, 49 – SDWA – (S)MCLs.

International: 50 – Canada – WHMIS Classification of substance, 54 – Mexico – Drinking water – ecological criteria, 55 – Mexico – Wastewater discharges, 56 – US – TSCA Section (12)(b) – export notification.

State Lists: 60 – CA – Proposition 65, 61 – FL – Substances, 62 – MI – Critical materials, 63 – MA – RTK, 64 – MA – Extraordinarily hazardous substances, 65 – MN – Hazardous substances, 66 – PA – RTK, 67 – NJ – RTK, 68 – NJ – Environmental hazardous substances, 69 – NJ – Special hazardous substances.

Inventories: 80 – Canada – Domestic substances, 81 – European – EINECS, 82 – Japan – ENCS, 83 – Korea – Existing and evaluated chemical substances, 84 – US – TSCA, 85 – China Inventory.

Regulatory Search Results:

BITREX: 80, 81, 82, 83, 84, 85

METHYL ALCOHOL: 15, 16, 17, 20, 22, 23, 30, 33, 35, 42, 47, 48, 50, 61, 63, 65, 66, 67, 68, 69, 80, 81, 82, 83, 84, 85

WATER: 80, 81, 83, 84, 85

U.S. TSCA Inventory: All components of this material are on the US TSCA Inventory.

SARA Section 313: Consumer products are not regulated under SARA, Title III, Section 313.

IARC: No information available.

SARA 311 / 312 Categories

Acute: X Chronic: X Fire: X Pressure: -- Reactive: -- Not Regulated: --

Canadian WHMIS Classification

Class B – Flammable and Combustible Material, Division 2, Flammable Liquids

Class D – Poisonous and Infectious Material, Division 2B, Toxic Material

Class D – Poisonous and Infectious Material, Division 1B, Toxic Material

European Union Classification:

Hazard Symbols:

Toxic / T / skull and crossbones in square.

Highly flammable / F / flame in square.

Risk Phrases:

R10: Flammable.

R23/24/25: Toxic by inhalation, in contact with the skin and if swallowed.

R39/23/24/25: Toxic; danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases:

S1/2: Keep locked up and out of reach of children.

S7: Keep container tightly closed.

S16: Keep away from sources of ignition – no smoking.

S45: In case of accident or if you feel unwell seek medical advice immediately....(show the label where possible).

Other: No information available.

Section 16: Other Information

Front Label: DANGER: (Skull and Crossbone symbol) POISON. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. FLAMMABLE. VAPOR HARMFUL.

Read carefully other cautions on back.

Back Label: DANGER: CONTAINS METHYL ALCOHOL. CANNOT BE MADE NON-POISONOUS. PRECAUTIONARY

MEASURES: Do not drink or inhale. Keep away from heat, sparks, flames and other ignition sources. Store below 120F. Use only in a well-ventilated area. Do not store in open or unlabeled containers. Avoid contact with eyes. **FIRST AID:** If swallowed, give one or two glasses of water. Call physician, hospital emergency room or Poison Control Center immediately. Get prompt attention.

Eyes: Flush with water for 15 minutes and get prompt medical attention.

KEEP OUT OF REACH OF CHILDREN.

This product contains a bittering agent.

NFPA Rating:

Health: 1

Flammability: 3

Reactivity: 0

Key: 0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe A-Safety Glasses

Important:

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. **RELADYNE LLC MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATE HEREIN.** RelaDyne LLC will not be liable for claims resulting from the use of or reliance upon such information.