

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Windshield Washer Fluid 20°F Product #: DPZ002 CAS Number: Blend
NuGeneration Technologies, LLC www.nugentec.com
100 Professional Center Drive Suite 101, Rohnert Park, CA 94928 USA (707)820-4080 (product info)
1-800-424-9300 or 1-202-483-7616 (CHEMTREC: For emergencies)

2. COMPOSITION/INFORMATION ON INGREDIENTS:

HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>	<u>ACGIH Threshold Limit Value</u>
2-PROPANOL	< 5.0 %	67-63-0	200 ppm (TWA)

COMPOSITION COMMENT: Non-Corrosive product. [Windshield Washer fluid - Automotive]

HAZARDS DISCLOSURE: This product contains known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains no known hazardous materials.

Canadian Disclosure List 2-PROPANOL (67-63-0)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW - WARNING! FLAMMABLE LIQUID AND VAPOR.
HARMFUL IF SWALLOWED OR INHALED.
CAUSES IRRITATION TO EYES AND RESPIRATORY TRACT.
AFFECTS CENTRAL NERVOUS SYSTEM. MAY BE HARMFUL IF ABSORBED THROUGH
SKIN. MAY CAUSE IRRITATION TO SKIN.

HMIS/NFPA Rating:

Health - 1, Flammability - 1, Reactivity - 0 Personal Protection Index - C

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).

POTENTIAL HEALTH EFFECTS

EYE: Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

SKIN: May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.

INHALATION: Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.

INGESTION: Can cause drowsiness, unconsciousness, and death. Gastrointestinal pain, cramps, nausea, vomiting, and diarrhea may also result. The single lethal dose for a human adult = about 833 mls (28 ounces).

SIGNS AND SYMPTOMS OF EXPOSURE: Not expected to be a skin or eye irritant.

CHRONIC EFFECTS: Prolonged/repeated contact may produce mild skin irritation.

CARCINOGENICITY INFORMATION: No known cancer hazards.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID: Flush eyes with plenty of water for at least 15 minutes.

SKIN CONTACT FIRST AID: Wash skin with water and remove contaminated clothing.

INHALATION FIRST AID: No known inhalation issues in normal industrial use.

INGESTION FIRST AID: Get medical attention. Induce vomiting. Give water or Milk.

STATEMENT OF PRACTICAL TREATMENT: Always have plenty of water available for first aid.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Autoignition Temp: >800 F COC Flash Point: >190 F

FLAMMABLE LIMITS IN AIR: LEL: 6% UEL: 36% EXTINGUISHING MEDIA: Water fog, chemical foam, dry chemical powder, Carbon dioxide.

FIRE & EXPLOSION HAZARDS: Incinerating may create toxic decomposition products. Move container away from fire area if you can without risk. Dike fire control water for later disposal; do not scatter the material. Apply cooling water to the sides of containers exposed to flames until well after the fire is out.

6. ACCIDENTAL RELEASE MEASURES

SPILLS PROCEDURE: Wash to waste treatment system with water. Or for large spills Absorb spill with inert material (dry sand), then place in a chemical waste container.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE Minimum: 0 C (32 F) Maximum: 38 C (100 F)
 SHELF LIFE(in original sealed containers): 5 years @ 0 C 3 years @ 38 C
 HANDLING (PERSONNEL): Avoid contact with eyes, skin, and clothing.
 STORAGE PRECAUTIONS: Keep from freezing. Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Under normal use conditions, with adequate ventilation, no special handling equipment is required.

EYE PROTECTION REQUIREMENTS: Wear protective Glasses to minimize eye contact.

EYE / FACE / RESPIRATORY PROTECTION REQUIREMENTS: Not required in normal use.

SKIN PROTECTION REQUIREMENTS: Wear protective gloves to minimize skin contamination.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid COLOR: Blue
 ODOR: Faint Ether-Odor BOILING POINT: ~205 F
 SOLUBILITY IN WATER: Complete SPECIFIC GRAVITY: 0.99 (Water = 1)
 BULK DENSITY: 8.26 MELTING/FREEZING POINT: <20 F
 PH: 9.0 VOC = < 50 g/l (concentrate)

10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine.

DECOMPOSITION: Carbon dioxide and carbon monoxide may form when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Oral rat LD50: 5045 mg/kg; skin rabbit LD50: 12.8 gm/kg; inhalation rat LC50: 16,000 ppm/8-hour; investigated as a tumorigen, mutagen, reproductive effector.

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Isopropyl Alcohol (67-63-0)	No	No	3
Water (7732-18-5)	No	No	None

12. ECOLOGICAL INFORMATION

Environmental Fate:

When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent.

When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity:

The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

CONTAINER DISPOSAL: Clean out containers prior to disposal.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: **Windshield Washer Fluid 20°F** PACKAGE CLASS: 55
 D.O.T. SHIPPING NAME: Cleaning Compound D.O.T. HAZARD CLASS: Non-Hazardous
 UN NUMBER: N/A D.O.T. LABEL: NOBIN Non-Hazardous Non-regulated.
 PRODUCT RQ (LBS): NA D.O.T. PLACARD: N/A BULK CLASS: N/A

15. REGULATORY INFORMATION

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Isopropyl Alcohol (67-63-0)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	Korea	--Canada--		
		DSL	NDSL	Phil.
Isopropyl Alcohol (67-63-0)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
Isopropyl Alcohol (67-63-0)	No	No	Yes	No
Water (7732-18-5)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	CERCLA	-RCRA-	-TSCA-
		261.33	8(d)
Isopropyl Alcohol (67-63-0)	No	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No
 Reactivity: No (Mixture / Liquid)

Australian Hazchem Code: 2[S]2

Poison Schedule: None allocated.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS).

16. OTHER INFORMATION

PREPARED BY: Donato Polignone PRD NUMBER: DPZ002 (Official Copy)
 APPROVAL DATE: June 6, 2007 SUPERCEDES DATE: October 1, 2002

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

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END OF MSDS