

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Windshield Washer Solvent
MSDS NO. 2941
Revision Date: 04/11/2006
Date Printed 12/30/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Windshield Washer Solvent
Chemical Family: SOLVENTS IN WATER
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Isopropyl Alcohol 67-63-0	35-54	Not Listed	Not Listed	Not Listed
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched 127087-87-0	4-6	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Isopropyl Alcohol 67-63-0	35-54	980 mg/m ³ 400 ppm	980 mg/m ³ 400 ppm	Not Listed
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched 127087-87-0	4-6	Not Listed	Not Listed	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Isopropyl Alcohol 67-63-0	200 ppm	400 ppm	Not Listed
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched 127087-87-0	Not Listed	Not Listed	Not Listed

3. HAZARDS IDENTIFICATION

Emergency Overview: Danger: Flammable Liquid. Keep away from heat, sparks, and flame. Causes severe eye burns. May irritate the skin. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

HMIS Classification: Health: *2 Flammability: 3 Physical Hazard: 0
NFPA Rating: Health: 2 Flammability: 3 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Ingestion: If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration. Risk of damage to lungs exceeds poisoning risk.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

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4. FIRST AID MEASURES

Skin Contact: Wash with soap and water. Get medical attention if irritation persists. Remove contaminated clothing and shoes, and launder before reuse.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): 53 F (Lowest Component)
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): 2% vol in air (Lowest Component)
Flammable Limits in Air - Upper (%): 12.7% vol in air (Lowest Component)
Autoignition Temperature °F(°C): 750 F (Lowest Component)
Extinguishing Media: Alcohol foam. Carbon dioxide. Dry chemical. Use water spray to keep containers cool that are exposed to heat or flames. Water fog.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Closed containers may explode if exposed to extreme heat.

Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide. Fumes and Smoke.
Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Avoid breathing vapor. When airborne exposure limits are exceeded use NIOSH approved respiratory protection equipment appropriate to the material and/or its components.

Spill Procedures: Wear protective equipment specified. Only trained and qualified personel should handle any spilled or leaked product. Avoid all sources of ignition; heat, sparks and open flames.

Action to be taken if material is released or spilled: Remove sources of ignition. Increase area ventilation. Release causes immediate fire/explosion hazard. Stop release at source. Dike area and contain. Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials.

Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

7. HANDLING AND STORAGE

Handling and Storage: Danger: Flammable. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Keep container closed when not in use. Avoid contact with skin and eyes. Use only in a well ventilated area. Keep away from heat and open flame. Keep away from food and smoking materials. Wash hands before eating and smoking. Do Not Swallow. Avoid excessive storage temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Exhaust ventilation. Showers. Eyewash stations.
Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.
Skin Protection: PVC coated apron or clothing. Launder contaminated clothing before reuse.
Respiratory Protection: Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources. Do not breath mist. An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Topical: blue liquid
Odor: ALCOHOL
pH Value: Not Determined
Vapor Pressure: 33 mm Hg @ 68 F. (Lowest Component)
Vapor Density (Air=1): Not Determined
Boiling Point (°F): 180 F. (Lowest Component)
Melting/Freezing Point: Not determined.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Water: >95%
Bulk Density at 20°C: Not Determined
Molecular Weight: Mixture
Specific Gravity (H2O=1): .8 - .95 @ 60 F
Viscosity: Not determined.
Evaporation Rate: Not Determined
VOC Content(%): Not determined.
Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
Conditions to Avoid: Keep away from heat, sparks and flame. Avoid any source of ignition. Excessive heat.
Materials to Avoid: Aluminum metals, NITROFORM. Strong oxidizing agents. Sulfuric Acid. Strong bases. Strong acids.
Materials reactive with hydroxyl compounds.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Toxic fumes
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Component	Route	Species	Dose
Isopropyl Alcohol 67-63-0	Inhalation	Rats	LC50 16,000 ppm
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched 127087-87-0	Oral	Rats	LD50 2.52 ml/kg 24 Hr.

Carcinogenicity:

Component	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0	Not Listed	Not Listed	Not Listed
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched 127087-87-0	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.
Waste Management: Not determined.
Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:
Proper Shipping Name: ORM-D CONSUMER COMMODITY
Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

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14. TRANSPORTATION INFORMATION

IMDG:
 Proper Shipping Name: Isopropyl Alcohol
 Hazard Class: 3
 Hazard Subclass: Not determined.
 UN No.: UN 1219
 Packing Group: II
 Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ
Isopropyl Alcohol 67-63-0	Listed.	Not Listed	Not Listed	Not Listed
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched 127087-87-0	Not Listed	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Catagories: Not Determined.

State Regulations:

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Isopropyl Alcohol 67-63-0	Not Listed	Not Listed	Not Listed	Not Listed
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched 127087-87-0	Not Listed	Not Listed	Not Listed	Not Listed

Component	New Jersey Right-to-Know List:
Isopropyl Alcohol 67-63-0	Substance no. 1076 Substance no. 2079 Substance no. 2422 Substance no. 2423 Substance no. 2425 Substance no. 2426 Substance no. 2427 Substance no. 2428 Substance no. 2429 Substance no. 2430 Substance no. 2381

U.S. TSCA: The components of this product are listed on the TSCA Inventory.
Canadian Inventory: The components of this product are listed on the Canadian DSL or NDSL Inventory.

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Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

16. OTHER INFORMATION

General Notes:
Disclaimer:

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.