



MATERIAL SAFETY DATA SHEET

R-900 WINDSHIELD SEALANT

Section One

PRODUCT INFORMATION

Manufacturer's Name: ADCO Products, Inc. Business Phone No: 1-517-764-0334
 Manufacturer's Address: 4401 Page Ave., P.O. Box 457 Emergency Phone No: 1-800-424-9300
 Michigan Center, MI 49254 (CHEMTREC)

Product Name: **R-900 Windshield Sealant**
 Proper Shipping Name: Adhesive, containing a flammable liquid, Class 3, UN1133, PGII

Section Two

HAZARDOUS INGREDIENTS INFORMATION

Chemical Name	C.A.S. No.	% by Weight	ACGIH TLV	OSHA PEL
Carbon Black	1333-86-4	1-20	3.5 Mg / M ³	N/A
Light Aliphatic Solvent Naphtha	64742-89-8	30	300 ppm	500 ppm
Quartz (SiO ₂)	14808-60-7	<1	0.1 mg/m ³ (TWA)	

Section Three

PHYSICAL AND CHEMICAL DATA

Appearance & Odor: Black paste with characteristic aliphatic solvent naphtha odor.
 Physical State: Paste Boiling Point: 240-285°F.
 Specific Gravity (water = 1): 1.22 Evaporation Rate (ethyl ether = 1): 9.2
 Percent Volatiles: 30% maximum. Solubility in Water: 0.5%
 Vapor Pressure: 45 mm Hg @ 78°F, 26°C Vapor Density (air = 1): 3.8.
 Percent Solids (by weight): 70% minimum. Melting Point: N.A.
 VOC Content: 3.99 lb/gal, 478 grams/L

Section Four

FIRE & EXPLOSION HAZARD DATA

Flash Point: 48°F **Method Used:** Tag closed cup.
Flammable Limits: LEL: 0.9 UEL: N.A.
Proper Extinguishing Media: Foam, dry chemical or carbon dioxide. Water may be ineffective, but water should be used to keep fire exposed containers cool.

Section Four

CONTINUED

Recommended Firefighting Procedures: Treat as a class "B" fire. Limit fire fighting to those trained to do so. If a leak or spill has ignited, use water spray to disperse the vapors and to protect the men attempting to stop the leak. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

Unusual Fire & Explosion Hazards: Vapors are heavier than air and may travel along the ground and be ignited by ignition sources distant from the handling point. Residue in "empty" containers may be explosive if exposed to an ignition source. To prevent fire or explosion from static accumulation and discharge, effectively ground the product transfer system.

Section Five

HEALTH HAZARD DATA

Medical Conditions Aggravated by Exposure: Pre-existing eye, skin, and pulmonary disorders may be aggravated by exposure to this product.

Primary Route of Entry:

skin absorption	yes
inhalation	yes
ingestion	yes
eye contact	yes

Signs and Symptoms of Exposure:

eye contact:	Can cause severe irritation, redness, tearing, blurred vision.
skin contact:	Can cause redness, irritation, defatting, dermatitis.
inhalation:	Prolonged inhalation of vapors may cause irritation of the respiratory tract. Intentional misuse by deliberately concentrating and inhaling vapor may be harmful or fatal.
ingestion:	Can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

Emergency and First Aid Procedures:

in eyes:	Flush with large amounts of water, frequently flushing under the lids. Seek medical attention.
on skin:	Wash with soap and water. Get medical attention if irritation persists.
inhaled:	Remove affected person to fresh air, give oxygen or artificial respiration as necessary to assist breathing. Get medical attention.
ingested:	Do not induce vomiting. Get medical attention.

Acute Effects of Overexposure: Irritation, redness.

Chronic Effects: (include all potential carcinogens present @ .1% or greater) The International Agency for Research on Cancer (IARC) Monographs has identified respirable quartz (SiO₂) as a suspect human cancer-causing agent based on limited human evidence but sufficient evidence in experimental animals (Class 2A).

Exposure to respirable quartz will not be possible with this product under normal conditions of use. This product contains Carbon Black, category 2B (known animal carcinogen, possible human carcinogen.)

Carcinogenicity: NTP? No IARC Monographs? Yes OSHA regulated? No

Section Six**REACTIVITY DATA**

Stability: Stable.

Conditions to Avoid: None known.

Hazardous Decomposition Products: In the event of partial combustion, fumes, smoke, carbon monoxide, aldehydes, and other decomposition products may be released.

Hazardous Polymerization: Will Not Occur

Incompatibility: None Known.

Section Seven**PRECAUTIONS FOR SAFE HANDLING AND USE**

Ventilation: General exhaust as needed to keep TLV below recommended levels if engineering or administrative controls are not adequate.

Personal Protective Equipment:

Respirator: For large spills or entry into enclosed small spaces with inadequate ventilation, a pressure demand, self-contained breathing apparatus is recommended. If engineering or administrative controls are not adequate to maintain solvent TLV below recommended levels, an appropriate respirator should be used in conjunction with a respirator use and fit training program. Although ADCO Products, Inc. has no control over the customer's method of using this product, *under conditions of normal use the respirable quartz contained in the product is a completely incorporated component, and as such should not present an inhalation hazard.*

Gloves: Buna-N, if needed.

Eye Protection: Safety glasses with side shields if needed.

Other Protective Clothing/Articles: To prevent repeated or prolonged skin contact, wear impervious clothing and boots if contact is likely.

Work/Hygienic Practices: Minimize breathing vapor. Avoid prolonged or repeated contact with the skin. Remove contaminated clothing and laundry before reuse. Cleanse skin thoroughly after contact, before work breaks and meals, and at the end of the work day. Product is readily removed from the skin with waterless hand cleaners followed by washing thoroughly with soap and water.

Steps To Be Taken in Case Material is Released or Spilled: Eliminate all ignition sources. Control the source of the spill if it is safe to do so. Ventilate enclosed areas to prevent vapor accumulation. Restrict access by unauthorized personnel. Absorb spilled product with vermiculite or other absorbent material. Shovel or scoop into a sealable container for disposal.

Waste Disposal Method: If this product becomes a waste, it is considered a hazardous waste due to its ignitability. Dispose of in accordance with local, state, and federal environmental and waste regulations.

Storage and Handling Procedures: Do not store or handle near an ignition source. Keep containers closed. Effectively ground the product transfer system to prevent fire or explosion from static discharge. Empty containers may contain residual product. Do not reuse containers unless properly reconditioned.

Section Eight**REGULATORY INFORMATION**

All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under RCRA 40CFR261: ignitability.

Hazardous Materials Identification System (HMIS):

Health Hazard Rating:	1 CAUTION Irritation or minor reversible injury possible.
Flammability Hazard Rating:	3 WARNING Material capable of ignition under almost all normal temperature conditions.
Reactivity Hazard Rating:	0 Normally stable and will not react with water.
Personal Protective Equipment:	B Safety glasses and gloves.

EPA SARA Title III hazard class (40CFR370): Acute Health Hazard
Chronic Health Hazard
Fire Hazard

EPA SARA Title III Section 313 (40CFR372): There are no listed toxic chemicals present in quantities greater than the *de minimis* level.

EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains a listed substance, which the State of California has found to cause cancer, birth defects, or other reproductive harm, in a form which would require a warning under the statute.

WHMIS Information:

Class D, Division 2 – Other toxic effects: May be a skin or eye irritant.

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