

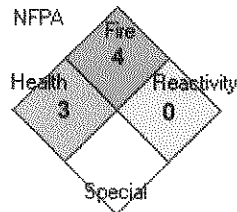
# MSDS - Material Safety Data Sheet

**Product Name: WINDSHIELD WASHER SOLVENT WITH ANTI-FREEZE**

MSDS No.: M540

**I. Basic Information:**

Manufacturer: RADIATOR SPECIALTY COMPANY  
 Address: 600 RADIATOR ROAD  
 City, ST Zip: INDIAN TRAIL, NC 28079  
 Emergency Contact: Rocky Mountain Poison Control Center  
 Emergency Telephone Number: 303-623-5716  
 Contact: Robert Geer  
 Information Telephone Number: 704-688-3430



Last Update: 01/03/2006

Chemical State:  Liquid     Gas     Solid  
 Chemical Type:  Pure     Mixture

3	Health
4	Flammability
0	Reactivity
H	Pers. Protection

**II. Ingredients:**

Trade Secret (N/D = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB	Z	313				
1336216	Ammonium hydroxide	0.1 - 1.0							50 ppm (TW/25 ppm)		
67561	Methanol	60.0 - 100.0					X		200 PPM	200 PPM	

**III. Hazardous Identification:**

Hazard Category:

Acute     Chronic     Fire     Pressure     Reactive

Hazardous Identification Information:

DANGER: POISON! MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. THIS PRODUCT CAN NOT BE MADE NON-POISONOUS. FLAMMABLE. VAPOR HARMFUL. EYE AND SKIN IRRITANT.

**IV. First Aid Measures:**

Route(s) of Entry:

Absorption, Eye, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

ACUTE: Irritation of mucus membranes, eyes, nose, throat, and membranes of the upper respiratory tract. Breathing of vapor or absorption through skin can cause permanent blindness. Exposure to high concentrations can cause headaches, nausea, vomiting, dizziness or death.  
 CHRONIC: Irritation of mucus membranes, eyes, nose, throat, and membranes of the upper respiratory tract. Repeated exposure can cause dryness, irritation, inflammation of the skin, visual impairment with symptoms ranging from mild blurring to contraction of visual fields to sometimes complete blindness. Long term effect may include liver damage.

Signs and Symptoms:

Eye contact: may cause eye irritation. Skin contact may cause irritation, dryness, cracking of the skin.  
 Inhalation: may cause irritation of the mucus membranes and respiratory tract.  
 Ingestion: may cause nausea, vomiting, dizziness, blindness,

Medical Conditions Generally Aggravated by Exposure:

Eye Contact: Flush eyes with water for 15 minutes while lifting upper and lower eyelid. Get prompt medical attention.  
 Skin Contact: Wash with soap and water. If irritation persists, get prompt medical attention.  
 Inhalation: Move to fresh air. If breathing becomes difficult, get prompt medical attention.  
 Ingestion: Drink water or milk. Call Poison Control Center, physician, or hospital emergency room immediately.

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### Emergency and First Aid Procedures:

Eye Contact: Flush eyes with water for 15 minutes while lifting upper and lower eyelid. Get prompt medical attention.  
Skin Contact: Wash with soap and water. If irritation persists, get prompt medical attention.  
Inhalation: Move to fresh air. If breathing becomes difficult get prompt medical attention.  
Ingestion: Drink water or milk. Call Poison Control Center, physician, or hospital emergency room immediately.

### Other Health Warnings:

Methanol is rapidly absorbed into the skin upon contact.

### V. Fire Fighting Measures:

Flash Point: 57°F

Lower Explosive Limit: N/D

Upper Explosive Limit: N/D

F.P. Method: TCC

Fire Extinguishing Media: Water Fog, Foam, Carbon Dioxide, Dry Chemical

### Special Fire Fighting Procedures:

Wear self-contained positive pressure breathing apparatus and protective clothes. Cool containers with a water fog. Do not use forced water stream as this could cause the fire to spread.

### Unusual Fire and Explosion:

Poisonous gases are produced in a fire. Flashback along vapor trail may occur.

### VI. Accidental Release Measures:

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

Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc). Using a non-metallic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred.

### VII. Handling and Storage:

#### Precautions to be Taken:

Handling: Use with adequate ventilation and proper protective equipment.  
Do not use near fire, sparks, or flame. Do not puncture or incinerate container.  
Store in cool, well ventilated area below 120°F away from heat sources. Avoid contact with strong oxidizing agents. Keep containers tightly closed. Avoid contact with eyes and skin, avoid prolonged or repeated breathing of vapors. Wash thoroughly after handling.

#### Other Precautions:

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye.  
**KEEP AWAY FROM CHILDREN AND ANIMALS!**

### VIII. Exposure Controls/Personal Protection:

#### Ventilation Requirements:

See Section 2 for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

#### Personal Protective Equipment:

See Section 2 for applicable exposure limits. For prolonged exposure wear protective goggles, gloves, and apron. Employees must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

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### IX. Physical and Chemical Properties:

Boiling Point: 148°F

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): N/D

Vapor Pressure (mm Hg.): N/D

Specific Gravity (H<sub>2</sub>O = 1): 0.87000

Vapor Density (AIR = 1): N/D

Solubility in Water: Soluble

Appearance and Odor: Clear blue liquid with ammonia odor.

Other Information: pH: 10.0 - 11.0 (50% Solution)

### X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Acids and Oxidizing agents

Decomposition/By Products:

Normal products of combustion: carbon monoxide, carbon dioxides, and methanol vapors.

Hazardous Polymerization:

Will not occur.

### XI. Toxicological Information:

N/D

### XII. Ecological Information:

N/D

### XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in a recycling centers when empty. Before offering for recycling, empty the can or bottle by using the product according to the label. If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations

### XIV. Transport Information:

DOT Shipping Name: Methanol

DOT Hazard Class: 3

UN Number: UN1230

PG: II

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping purposes.

### XV. Regulatory Information:

See Section 2 for SARA Reportable Chemicals.

USA TSCA: All components of this material are either exempt or listed on the US TSCA Inventory.

### XVI. Other Information:

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Do not use in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye.  
**KEEP AWAY FROM CHILDREN AND ANIMALS!**

N/E: Not Established

N/D: Not Determined

N/A: Not Applicable

N/AV: Not Available

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