



Effective Date: May 10, 2016

Product #(s) - 90006

## Safety Data Sheet

For Emergency Call:  
CHEM-TEL (800) 255-3924 24 Hour Assistance

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Zecol Bug Blast Windshield Wash

**CAS Number:** 7732-18-5 / 67-56-1

**Recommended Uses:** Window Wash

**Company Identification**

Manufacturer's Name: ZECOL PRODUCTS COMPANY

Address: 4635 Willow Drive, Medina, MN 55340

Telephone – General Information: (763) 478-3438

### 2. HAZARDS IDENTIFICATION

**Hazard Classes:** Acute Oral Toxicity Category 4  
Acute Dermal (skin) Toxicity Category 4  
Acute Inhalation Toxicity Category 4  
Toxic to Reproduction Category 1B  
Specific Target Organ Toxicity (Single Exposure) Category 1

**Signal Word:** DANGER

**Hazard Statements:**

H302 Harmful if Swallowed.  
H312 Harmful in Contact with Skin.  
H332 Harmful if Inhaled.  
H360 May Damage Fertility or the Unborn Child – fetotoxic and teratogenic effects.  
H370 Causes Damage to the Optic Nerve causing blindness.

**Precautionary Statements:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children,  
P103 Read label before use.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing vapors.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves / protective clothing / eye protection.  
P301 + P312 If SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P302 + P351 If ON SKIN: Wash with plenty of water.

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P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician  
P403 Store in well-ventilated place.  
P501 Disposal: Dispose of contents/container to a specialized waste disposal plant in accordance with local/regional regulations

**Hazard Pictograms:**



**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	Typical Weight Percentage	CAS Number
Water	98%	7732-18-5
Methanol	1%	67-56-1
Other Ingredients	<1%	Various

**4. FIRST AID**

**Eyes:** If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

**Skin:** Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

**Inhalation:** If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, seek emergency medical attention. If victim is drowsy or unconscious and vomiting, place on left side with head down and do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to by physician or poison center.

**Medical Conditions:** None known.

**5. FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use material that is appropriate for the surrounding fire.

**Specific Hazards:** None known.

**Hazardous Combustion Products:** None anticipated.



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**Special Firefighting Procedures:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Cool equipment exposed to fire with water, if it can be done with minimal risk.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** None anticipated

**Environmental Precautions:** Stop spill/release if it can be done with minimal risk. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.

**Methods for Containment and Clean-Up:** Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand, earth or other non-combustible material, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g., skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practice.

**Conditions for Safe Storage:** Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Methanol	200 ppm (Skin)	250 ppm (Skin)	200 ppm	---

**Engineering Controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required.

### Specific Personal Protective Equipment

**Eye/Face Protection:** While contact with this material is not expected to cause irritation, the use of approved eye protection to safeguard against potential eye contact is considered good practice.



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**Skin:** Not required based on the hazards of the material. However, it is considered good practice to wear gloves when handling chemicals.

**Respiratory Protection:** Respiratory protection is not usually required.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Air-purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration as directed by regulation or the manufacturer's instructions, in oxygen deficient (less than 19.5% oxygen) situations or under conditions that are immediately dangerous to life and health (IDLH).

Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Other Protective Equipment:** A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

**Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.**

## 9. PHYSICAL AND CHEMICAL PROPERTIES (approximate values)

**Appearance:** Clear, green liquid

**Odor:** Mild alcohol

**Odor threshold:** No data

**pH:** Not applicable

**Melting/Freezing Point:** 0°C / 32°F

**Boiling point (at 1 atm):** 100°C / 212 °F

**Flash Point:** Non-flammable

**Auto-Ignition Temperature:** Non-flammable

**Evaporation rate (butyl acetate = 1):** No data

**Flammability (solid, gas):** Not applicable

**Explosive Limits:** Non-flammable

**Vapor Pressure:** No data

**Vapor Density (air = 1):** No data

**Specific gravity (H<sub>2</sub>O = 1):** 1 @ 20°C / 68 °F

**Solubility in water:** Soluble

**Partition Coefficient:** No data

**Decomposition Temperature:** No data

**Viscosity:** No data

## 10. STABILITY AND REACTIVITY

**Stability (thermal, light, etc.):** Stable under normal conditions of storage and handling.

**Conditions to Avoid:** None known



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**Incompatibility (materials to avoid):** None known

**Hazardous Decomposition Products:** None known

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Product/Ingredient Name	Result	Species	Dose
Bug Blast	LD50 Oral(estimated)	Rat	300-2000 mg/kg
	LD50 Dermal (estimated)	Rabbit	1000-2000 mg/kg
	LC50 Inhalation (vapor, estimated)	Rat	10-20 mg/l
Methanol (minor component)	LD50 Oral	Rat	$\geq 2528$ mg/kg
	LD50 Dermal	Rabbit	17,100 mg/kg
	LC50 Inhalation (vapor)	Rat	13.3 mg/l – 6hr

**Note:** Methanol assigned to classification based on human experience and not animal data.

**Skin Corrosion/Irritation:** Causes mild irritation.

**Serious Eye Damage/Irritation:** Causes mild irritation.

**Signs and Symptoms:** None

**Skin Sensitization:** None reported

**Respiratory Sensitization:** None reported

**Germ Cell Mutagenicity:** There is insufficient information available to conclude that methanol, a minor component, is mutagenic.

**Carcinogenicity:** Methanol, a minor component, did not demonstrate carcinogenic effects in rats and mice treated via whole body inhalation at concentrations  $\geq 1.3$  mg/l in air. There is insufficient information available to conclude that methanol is carcinogenic. It is not listed by NTP, IARC or OSHA.

**Reproductive Toxicity:** Methanol, a minor component, has produced fetotoxicity in rats and teratogenicity in mice exposed by inhalation to high concentrations of methanol vapors.

**Specific Target Organ Toxicity (Single Exposure):** Methanol, a minor component, ingestion causes damage to the optic nerve causing blindness.

**Specific Target Organ Toxicity (Repeated Exposure):** There is insufficient information available to conclude that methanol, a minor component, causes target organ effects from repeated exposure. Although ethylene glycol butyl ether is not classified as for target organ toxicity, animal data indicates effects on the blood (hemolysis) with secondary effects on the liver and kidney. Human red blood have been shown to be significantly less sensitive to hemolysis than those of rodents and rabbits.



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## 12. ECOLOGICAL INFORMATION

**Toxicity:** Material is primarily water and therefore is aquatically non-toxic.

Ingredient Name	Result	Species	Exposure
Methanol (minor ingredient)	Acute EC50 = 16.912 mg/L Marine Water	Algae	96 hours
	Acute LC50 = 2500000 ug/L Marine Water	Crustaceans	48 hours
	Acute LC50 = 3289 mg/L Fresh Water	Daphnia	48 hours
	Acute LC50 > 100000 ug/L Fresh Water	Fish	96 hours

**Persistence and Degradability:** Methanol, the minor ingredient, biodegrades easily in water and soil.

BOD5 = 1.1

COD = 1.05 – 1.55, 99%

**Bioaccumulative Potential:** Risk of bioaccumulation of methanol, a minor component, is low (BCF <500 and low log  $K_{ow}$  <4). BCF = 0.2 - <10 Log $K_{ow}$  = -0.77

**Mobility in Soil:** Methanol, a minor ingredient, is highly mobile. Adsorption coefficient ( $K_{oc}$ ) solid phase/liquid phase = 1

**Other Adverse Effects:** None known

## 13. DISPOSAL CONSIDERATIONS

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

Recycle wherever possible. Large volumes may be suitable for re-distillation or, if contaminated, incinerated. Can be disposed of in a sewage treatment facility.

This material, if discarded as produced would not be a federally regulated RCRA hazardous waste. Use which results in chemical or physical change of this material could subject it to additional regulation as a hazardous waste.

## 14. TRANSPORT INFORMATION

**DOT/TDG Proper Shipping Name:** Not Regulated

**DOT/TDG Identification Number:** Not Regulated

**DOT Hazard Class:** None / **TDG Hazard Class:** None

**DOT/TDG Packing Group:** Not Regulated

**ERG Guide Number:** None

**Marine Pollutant:** No

## 15. REGULATORY INFORMATION

**TSCA:** Methanol and water are listed on the TSCA inventory.

**DSL:** Methanol and water are listed on the DSL inventory.



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**OSHA (Occupational Safety and Health Administration):** This material is considered to be hazardous as defined by the OSHA Hazard Communication Standard.

This material has not been identified as a carcinogen by NTP, IARC or OSHA

**CERCLA/SARA – Section 302 Extremely Hazardous Substances and TPQ (in pounds):** This material does NOT contain chemicals subject to the reporting requirements of SARA 302 and 40 CFR 355 Appendix A and B.

**EPA (CERCLA) Reportable Quantity (in pounds):** This material contains the following chemicals subject to the reporting requirements of 40 CFR 302.4.

Component	Concentration	RQ
Methanol	1%	5000 lbs

**CERCLA/SARA - Sections 311/312 (Title III Hazard Categories):**

Acute: Yes      Chronic: Yes      Fire: No      Reactivity: No

**CERCLA/SARA – Section 313 and 40 CFR 372:** This material contains the following chemicals subject to the reporting requirements of SARA 313 and SARA Title III and 40 CFR:

Component	Concentration	de minimis
Methanol	1%	1%

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** This material contains detectable chemicals known to the State of California to cause cancer and/or reproductive toxicity.

Component	Concentration	Effect
Methanol	1%	Developmental

**Canada:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations.

WHMIS Hazard Class: D1B, D2A, D2B

**16. OTHER INFORMATION**

Issue Date: May 10, 2016  
Previous Issue Date: June 1, 2015  
Change: Updated Sec 8. exposure limits

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