

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29CFR1910.1200. Standard must be consulted for specific requirements.

SECTION 1 - GENERAL INFORMATION

Name	ZECOL PRODUCTS COMPANY		
Address	4635 WILLOW DRIVE	Emergency Telephone No.	(CHEM-TEL) 1-800-255-3924
City, State, and ZIP	MEDINA, MN 55340	Other Information Calls	(763) 478-3438
Signature of Person Responsible for Preparation (Optional)		Date Prepared	JAN 1, 2002 (REV)

H	1
HEALTH	
F	1
FLAMMABILITY	
R	0
REACTIVITY	
Style NC-L503R	
PERSONAL PROTECTION	

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) [chemical & common name(s)]	OSHA PEL	ACGIH TLV	CAS NO.
*Glycol Ethers	NG	NG	Proprietary

(proprietary mixture of glycol ethers, polyglycols, glycols, oxidation inhibitors, and corrosion inhibitors.)

*This ingredient is subject to the reporting requirements of Section 313 of Title III and of 40 CFR Part 372.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	430° F. 221° C.	Specific Gravity (H ₂ O=1)	1.03
Vapor Density (Air=1)	ND	Vapor Pressure (mm Hg)	Low
Solubility in Water	Infinite	Evaporation Rate (N-Butyl Acetate=1)	NG
Appearance and Odor	Light yellow liquid, mild odor.		

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	272° F. 133° C.	Method Used	PMCC	Flammable Limits in Air % by Volume	LEL Lower ND	UEL Upper ND
Flash Point	280° F. 138° C.	Method Used	COC	Extinguisher Media	Water fog, carbon dioxide, dry chemical, foam. LARGE FIRE - alcohol resistant foams preferred;	
Auto-Ignition Temperature	NG	otherwise, general purpose synthetic or protein foams. Use water to flush and dilute spills; try to contain fire run-off water.				

Special Fire Fighting Procedure For large scale fires, direct water stream may cause violent frothing, but fine water spray may help control situation. Wear positive-pressure, self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards Keep unnecessary people away; isolate hazard area and deny unnecessary entry. When using water spray, boil over may occur when the product temperature reaches the boiling point of water (tank type scenarios, not spills).

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA) DOT 3 BRAKE FLUID (cont.)

Stability	<input type="checkbox"/> Unstable Conditions	
	<input checked="" type="checkbox"/> Stable to Avoid	
Incompatibility (Materials to Avoid)	Strong oxidizing material.	
Hazardous Decomposition Products	Carbon dioxide, carbon monoxide, and water. Unidentified organic compounds may be formed during combustion.	
Hazardous Polymerization	<input type="checkbox"/> May Occur Conditions	
	<input checked="" type="checkbox"/> Will Not Occur to Avoid	

SECTION 6 - HEALTH HAZARDS

1. Acute	Eye and skin irritant.	2. Chronic	None found for major components. Minor components, tested separately, have caused liver, kidney, gastrointestinal, testicular and central nervous system effects, and bladder stones.
Signs and Symptoms of Exposure	Eye and skin irritation, drowsiness, nausea, vomiting.		

Medical Conditions Generally Aggravated by Exposure	NG
---	----

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	I.A.R.C. Monographs	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	-----------------------------	--	---------------------	--	------	--

Emergency and First Aid Procedures	Note to Physician: No specific antidote. Supportive care. Treatment based on judgment of physician in response to reactions of the patient.
------------------------------------	---

ROUTES OF ENTRY

- 1. Inhalation Remove to fresh air if effects occur. Consult a medical personnel.
- 2. Eyes Irrigate with flowing water immediately for 15 minutes. Consult medical personnel.
- 3. Skin Wash off in flowing water or shower.
- 4. Ingestion Induce vomiting if large amounts are ingested. Consult medical personnel.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage	Provide good general ventilation. Use an approved air-purifying respirator when airborne exposure guidelines or comfort levels may be exceeded. Wear clean body-covering clothing. Do not get onto cut or scratched skin. Store product away from excessive heat, sparks, or open flame.
---	--

Other Precautions	Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto ignition temperature, possibly resulting in spontaneous combustion.
-------------------	---

Steps to be Taken in Case Material is Released or Spilled	Keep out of sewers, storm drains, surface waters, and soil. Do not allow to contaminate ground water. Soak up with suitable absorbent material and scoop.
---	---

Waste Disposal Methods (Consult federal, state, and local regulations)	Do not dump into any sewers, on ground, or into body of water! Send unused or uncontaminated material to a licensed recycler, reclaimer, or incinerator. Evaluate used or contaminated material to dispose of in compliance with federal, state, provincial, and local laws and regulations. Check with appropriate agencies for your location.
--	---

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type)	When airborne exposure guidelines or comfort level may be exceeded, use approved air-purifying respirator.
---------------------------------------	--

Ventilation	Good general ventilation should be sufficient for most conditions.
-------------	--

Protective Gloves	Use impervious gloves when hands are cut or scratched or for prolonged or repeated contact.
-------------------	---

Other Protective Clothing or Equipment	Use chemical goggles and clean body-covering clothing.
--	--

Work/Hygienic Practices	Practice reasonable care and personal cleanliness.
-------------------------	--