



Safety Data Sheet

Z01-HRESSZA1: HI-RES MAINTENANCE SPRAY

Section 1. Identification

Product Identifier	Z01-HRESSZA1: HI-RES MAINTENANCE SPRAY		
Synonyms	Glycol Ether EB; V300 Cleaner		
Manufacturer Stock Numbers	N/A		
Recommended use	Ink removal and cleaning		
Uses advised against	N/A		
Manufacturer Contact Address	ZANASI USA 9490 Hemlock Lane North Maple Grove, MN, 55369 HENNEPIN		
	Phone	Emergency Phone	Fax
	(763) 593-1907	(800) 424-9300 CHEMTREC CHEMTREC 24 HOUR ER LINE	(763) 593-1941

Section 2. Hazards Identification

Classification	EYE DAMAGE/IRRITATION - Category 2B FLAMMABLE LIQUIDS - Category 4 SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3
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Signal Word: Warning

Pictogram



Hazard Statements	Causes eye irritation Combustible liquid May cause respiratory irritation; or May cause drowsiness or dizziness
Precautionary Statements	
Response	Call a poison center/doctor/ ... /if you feel unwell. If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. In case of fire: Use ... to extinguish.
Prevention	Avoid breathing dust/fume/gas/mist/ vapors/spray. Keep away from heat. Use only outdoors or in a well-ventilated area. Wash ...thoroughly after handling. Wear protective gloves/eye protection/face protection
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container to ...
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
111-76-2	2-butoxyethanol	75% - 100%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Inhalation:	Move to fresh air. Treat symptomatically. Get medical attention of symptoms persist.
Eye Contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of eye irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.
Skin:	Wash with soap and water. Get medical attention if symptoms occur.
Ingestion:	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Water spray, dry chemical, carbon dioxide, alcohol foam.
Unsuitable Extinguishing Media	N/A
Special Fire Fighting Procedures:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure or other positive pressure mode. Water spray may be used to keep fire-exposed containers cool.
Hazardous Combustion Products:	CO, CO2
Unusual Fire and Explosion Hazards:	Combustible. Forms peroxides of unknown stability.

Section 6. Accidental Release Measures

Release:	Use personal protective equipment. Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
Large Spills:	Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

Section 7. Handling and Storage

Personal Precautionary Measures:	Avoid breathing high vapor concentrations. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use with adequate ventilation.
Prevention of Fire and Explosions:	Keep away from heat and flame. Keep from contact with oxidizing materials. Minimize exposure to air. After opening, purge container with nitrogen before reclosing. If peroxide formation is suspected, do not open or move container. Do not distill to near dryness. Addition of water or appropriate reducing materials will lessen peroxide formations.
Storage:	Keep container tightly closed. Store away from heat and light.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	2-butoxyethanol	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Gloves			
Exposure:	DIETHYLENE GLYCOL MONOETHYL ETHER: US. Workplace Environmental Exposure Level (WEEL.) Guides Time Weighted Average (TWA): 25 PPM, 140 mg/m3			
Ventilation:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust, ventilation, or other engineering controls to			

maintain airborne levels below the recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (Where applicable) or to an acceptable level (In countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air- purifying respirator with an appropriate, government approved (Where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Eye Protection: Wear safety glasses with side shields (or goggles).

Skin Protection: It is good industrial hygiene practice to minimize skin contact.

Recommended Eye bath, washing facilities.

Decontamination Facilities:

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Colorless
Odor	Mild
Odor Threshold	1.1 ppm
Solubility	Complete
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	4.5 mPa.s (20C)
Specific Gravity	0.99
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	91C (Tag closed cup)
FP Method	N/A
pH	N/A
Melting Point	-90C
Boiling Point	198C
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	(HPDTA) No exotherm to 500C
Auto-ignition Temperature	204C (ASTM D2155)
Vapor Pressure	20C; 0.16 mbar

Vapor Density	4.6
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Section 10. Stability and Reactivity

Stability: Stable. Forms peroxides of unknown stability.
Incompatibility (Materials to avoid): Oxidizing materials.
Hazardous polymerization: Will Not Occur.

Section 11. Toxicological Information

Oral LD-50: (rat) 10,502 mg/kg
Oral LD-50:(mouse) 6,301 mg/kg
Inhalation LC-50:(rat) 1 h: >200 mg/l
Dermal LD-50:(rabbit) 9,143 mg/kg
Skin Irritation:(rabbit) slight
Skin Irritation:(guineas pig) slight
Eye Irritation:(rabbit) slight moderate
Skin Sensitization:(human) none

Section 12. Ecological Information

Oxygen Demand Data: BOD-5: 140 mg/g
BOD-20: 1,900 mg/g
COD (Chemical Oxygen demand): 1,910 mg/g
ThBOD:1,900 mg/g
Acute Aquatic Effects Data: 96 h LC-50 (bluegill sunfish): >10,000 mg/l
96 h LC-50 (tidewater silverside): >10,000 mg/l
24 h LC-50 (goldfish): 5000 mg/l

Section 13. Disposal

Disposal: Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Section 14. Transport Information

UN Number 2810
UN Proper Shipping Name COMBUSTIBLE LIQUID

DOT Classification N/A
Packing Group III
DOT Info: Quantities under 450 liters (119 gallons) are not regulated.

Section 15. Regulatory Information

TSCA(US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.
WHMIS (Canada) Status: controlled
WHMIS (Canada) Hazard Classification: B/3, D/2/B
SARA 311-312 Hazard Classification(s): Immediate (acute) health hazard, fire hazard.
SARA 313: None, unless listed below.
DIETHYLENE GLYCOL MONOETHYL ETHER (GLYCOL ETHERS CATEGORY)
Carcinogenicity Classification: (Components present at 0.1% or more): None, unless listed below
Regulatory Information: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

Revision Date 9/24/2014
Disclaimer: The information accumulated herein is believed to be accurate and represents the best data currently available. It is the user's responsibility to determine suitability of use. No warranty, expressed or implied, is made and ZANASI USA assumes no legal responsibility or liability resulting from its use. Materials comprising <1% by weight, or <0.1% by weight if the chemical is a carcinogen, are not listed herein.