



# Material Safety Data Sheet

Product Name: Z-8500A

Date: 4/18/2007  
Supersedes: 7/21/2005

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturers Name:** Development Associates, Inc.  
300 Old Baptist Rd.  
North Kingstown, RI 02852  
**Emergency Phone No:** Chemtrec (800) 424-9300 24 Hour  
**Product Name:** Z8500 Part A  
**Chemical Family/Name:** Polyester glycol, Polypropyleneglycol, and additive mixture.

## 2. COMPOSITION / INGREDIENT INFORMATION

Component	CAS #	%	Exposure limits(source)
Polyester polyol	trade secret	40-60	none(5)
Polyether polyol	trade secret	40-60	none(5)
Additive Mixture	trade secret	0-5	none(5)

**Source of Exposure Limit Data:** 1 ACGIH Threshold Limit Values 2. Federal OSHA Permissible exposure limit 3. DA Exposure Guidelines 4. Chemical Manufacturer Recommended Guidelines 5. None Established **Abbreviations:** n/a - not applicable, n/d - not determined.

## 3. HAZARDS IDENTIFICATION

HMIS HEALTH 1, FIRE 1, REACTIVITY 0

**Threshold Limit Value:** Not established by ACGIH or OSHA

**Routes of Entry:** At room temperature by skin absorption or ingestion. If heated or atomized by inhalation.

**Signs and Symptoms of Exposure:**

**Eyes:** Redness and irritation.

**Skin:** Rash, redness

**Ingestion:** Nausea, irritation of digestive track.

**Inhalation:** Irritation of respiratory system.

**Acute Effects of Overexposure:**

**Eye Contact:** May cause severe eye irritation.

**Ingestion:** May cause irritation of gastrointestinal track and nausea.

**Skin Contact:** May cause severe skin irritation. May cause allergic skin reactions in some individuals.

**Skin Absorption:** Slightly toxic by skin absorption.

**Inhalation:** Airborne aerosols or vapors from heated material may cause severe respiratory system irritation.

**Chronic Effects of Exposure:** Constant exposure to skin may cause chronic dermatitis. Other chronic effects are unknown.

**Conditions Aggravated by Exposure:** Respiratory ailments, dermatitis, other conditions unknown.

**Carcinogenicity:** This product and its constituents are not listed as carcinogens by IARC, NTP or regulated as carcinogens by OSHA at this time.

**Routes of Entry:** At room temperature primary routes are ingestion or skin absorption. If the material is heated or atomized the vapors or aerosol may cause exposure via inhalation.

## 4. FIRST AID MEASURES

**Emergency and First Aid Procedures:**

**Eyes:** Irrigate w/flowing water immediately and continuously for 15 minutes. Obtain medical attention.

**Swallowing:** Give water or milk. Do not induce vomiting. Call a physician. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**Skin Contact:** Remove contaminated clothing wash before reusing. Wash affected area well with soap and water. Consult physician.

**Inhalation:** Remove to fresh air. Obtain medical attention.

## **5. FIRE AND EXPLOSION DATA**

**Flash Point** 350°F (175°C)TCC.

**Flammable Limits in Air % Volume** Upper: n/d Lower: n/d

**Extinguishing Media:** Foam, CO<sub>2</sub>, or Dry Chemical

**Unusual Fire and Explosion Hazards:** Do not breathe smoke when burning. Irritating and or toxic vapors and gasses when burned.

**Special Fire Fighting Procedures:** Fire fighters should wear full emergency equipment including self-contained breathing apparatus. Do not direct solid stream of water or foam into hot, burning pools, this may cause frothing and increase fire intensity.

## **6. ACCIDENTAL RELEASE MEASURES**

**Steps to be Taken in Case Material is Released or Spilled:** Contain spills with dams of absorbent material such as Zip Zorb. Absorb material and shovel into drums. Use appropriate safety equipment. Do Not flush to sewers.

## **7. HANDLING AND STORAGE**

**Precautions to be Taken in Storage and Handling:** Avoid skin and eye contact. Avoid breathing vapors if generated. Exercise reasonable care and cleanliness.

**Storage Temperatures** 25-50°C (77-122°F). Condition material to 30-60°C (86-140°F) before using. Mix well under dry atmosphere before using.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eye Protection:** Adequate eye protection as required to prevent contact during handling. i.e. Safety glasses, splash goggles, face shield.

**Skin Protection:** Rubber Gloves, aprons and other protective clothing as required to prevent contact.

Remove any contaminated clothing and wash before use. Routinely wash hands, arms and face with soap and water after handling. Do not smoke or eat until hands and face have been washed.

**Ventilation and Respiratory Protection:** Good room ventilation is required. General mechanical ventilation is normally satisfactory. Use organic vapor respirator or supplied air respirator where supplemental protection is needed. Follow OSHA regulations when using personal protective equipment.

**Other:** Eye wash, safety shower.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	clear liquid
Color	slight yellow tint
Odor	mild
Boiling Range	decomposes over 150°C.
Melting Point	super cools, sets to glass <10°C.
Evaporation Rate(BuAcet=1)	not volatile
Vapor Density (air=1)	n/a
Weight per Gallon	8.9
Specific Gravity	1.07
Solubility in Water(%)	very slight
Percent Volatile	negligible

## **10. STABILITY AND REACTIVITY**

**Stability** Stable

**Conditions to Avoid** High heat (over 225°F)

**Incompatibility (materials to avoid)** Oxidizing materials.

**Hazardous Polymerization** Will not occur.

**Hazardous Decomposition Products** By fire: CO<sub>2</sub>, CO, partially decomposed hydrocarbons, other undetermined irritating and or toxic fumes or vapors.

## **11. TOXICOLOGICAL INFORMATION**

Polyether polyol: Skin rabbit LD50: >2000 mg/kg; dermal rat LD50: >2000 mg/kg; ingestion oral rat LD50: >2000 mg/kg.

## **12. ECOLOGICAL INFORMATION**

Data unavailable

## **13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** If discarded in its purchased form, this product is not hazardous waste either by listing or by characteristic. However, processing, use or contamination of this product may change its hazardous waste status. Under RCRA, it is the responsibility of the product user to determine, at the time of disposal, whether a material is a hazardous waste. State and local disposal regulations may differ from federal disposal regulations. Dispose in accordance with all federal, state, and local waste disposal laws and regulations. Incineration is the preferred method.

## **14. TRANSPORT**

D.O.T. Shipping Name	none
Technical Shipping Name	Z8500 Part A Polyol, Plastic Related Material
D.O.T. Hazard Class	not regulated
UN/NA Number	none
NMFC Item	Plastic material liquid, NMFC-156240 Class 60

## **15. REGULATORY**

All components of this mixture are listed in the TSCA inventory.

*For details on regulatory requirements you should contact the appropriate agency in your state.*

## **16. OTHER**

This data is offered in good faith as typical values and not as a product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. No warranty, either expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

The information on this data sheet is only to assist in the safe handling of this material, and may contain trade secrets which may not be divulged to anyone except the users of this material and health care and hygiene professionals as required for its safe use. No license or permission to infringe any patent or breach any trade secret is given.