



**Development Associates, Inc.**

300 Old Baptist Rd. N Kingstown, RI 02852 Tel (401) 884-1350  
FAX (401) 885-7888 Web: www.developmentassociatesinc.com.



# Material Safety Data Sheet

Product Name: Z-8684 Part A

Date: 9-25-2013  
Supersedes: none

## 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:** Z-8684-M Part A  
**Chemical Family/Name:** Polypropylene glycol, and additive mixture

## 2. COMPOSITION / INGREDIENT INFORMATION

Component	CAS #	%	Exposure limits(source)
Polyether polyol	Trade secret	90-99.0%	none(5)
Phenylmercuric Carboxylate	26545-49-3	<0.4	0.1mg/M3 CEL (1,2)

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

## 3. HAZARDS IDENTIFICATION

**HMIS:** Health 2, Fire 1, Reactivity 0  
**Threshold Limit Value:** None established by ACGIH or OSHA  
**Routes of Entry:** At room temperature primary routes are skin absorption or ingestion. If heated or atomized by inhalation. If the material is heated or atomized the vapors or aerosol may cause exposure via inhalation.  
**Signs and Symptoms of Exposure:**  
**Eyes:** Redness and irritation  
**Skin:** Rash, redness  
**Inhalation:** Irritation of the respiratory system  
**Ingestion:** Nausea, irritation of digestive track.  
**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 an allergic skin reaction 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:** Chronic dermatitis, organo-mercury compounds can cause severe respiratory system irritation.  
**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.

## 4. FIRST AID MEASURES

**Emergency First Aid Procedures:**  
**Eyes:** Irrigate with flowing water immediately and continuously for 15 minutes. Obtain medical attention.  
**Swallowing:** Give water or milk. 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.

## **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. Protect from moisture.

**Storage Temperatures:** <105°F. Condition material to 65-100°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	8.74
Specific Gravity	1.05
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, mercury vapors, 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.

CAS# 26545-49-3 Phenylmercuric-carboxylate CAS# 26545-49-3: Oral rat values of 22-650mg/kg.

## **12. ECOLOGICAL INFORMATION**

Mercury compounds are toxic to wildlife, fish and birds. Avoid contact with feed, food and drinking water. Do not allow into drains or otherwise introduce to soil or groundwater.

## **13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** If discarded in its purchased form, this product is a toxicity characteristic waste(mercury, D009) according to 40CFR261.21. Under RCRA, it is the responsibility of the product user to determine, at the time of disposal, whether a material is 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.

## **14. TRANSPORT**

D.O.T. Shipping Name	none
Technical Shipping Name	Z8684-M 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**

**Chemical Inventories:** All components of this mixture are listed in the TSCA inventory.

**TRI:** Mercury Compounds N458 are reportable under the TRI program, there is no de minimis for mercury compounds. Reportable threshold for mercury compounds is 10 pounds, the maximum concentration is listed in section 2 of this MSDS. See <http://epa.gov/tri/index.htm> for more information on the TRI program.

**SARA 313:** Mercury compounds N458, are subject to the 1% *de minimis* concentration exclusion.

*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.