



Development Associates, Inc

300 Old Baptist Rd. N Kingstown, RI 02852

Tel (401) 884-1350 FAX (401) 885-7888 www.developmentassociatesinc.com.



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Material Safety Data Sheet

Product Name: Z-6644A

Date: 12/12/2001

Supersedes: 12/13/2000

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-6644 Part A

Chemical Family/Name: Polypropylene glycol, polyester polyol,
And additive mixture

Trade Name Polyurethane Compound

2. COMPOSITION / INGREDIENT INFORMATION

Component:	CAS #	%	Exposure limits(source)
Polyester Resin	n/a	40-60	none(5)
Polyether polyol	n/a	35-55	none(5)

Phenylmercuric-carboxylate 26545-49-3 < 0.5 0.1 mg/M3 CEL (1,2)

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 2, 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. Symptoms may include inflammation of mouth, esophagus, stomach and small intestine.

Inhalation: Irritation of respiratory system.

Acute Effects of Overexposure:

Eye Contact: May cause severe eye irritation.

Ingestion: May cause inflammation of mouth, esophagus, stomach and small intestine.

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 damage to the central nervous system, kidneys and digestive system, symptoms include fatigue, depression, tremors, headaches, emotional disturbances, digestive system irritation, vomiting and lower back pain. Others 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 of entry 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. 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: not determined. Lower: not determined

Extinguishing Media: Foam, CO₂, or Dry Chemical

Unusual Fire and Explosion Hazards: In a fire, Do not breathe smoke when burning.

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 Sorb. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Adequate eye protection as required to prevent contact during handling. ie. 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	viscous liquid
Color	straw
Odor	mild
Boiling Range	decomposes over 150oC
Melting Point	super cools, sets to glass <10oC.
Evaporation Rate(BuAcet=1)	not volatile
Vapor Density (air=1)	n/a
Weight per Gallon	8.90
Specific Gravity	1.06
Solubility in Water(%)	very slight
Percent Volatile	negligible

10. STABILITY AND REACTIVITY

Stability Stable

Conditions to Avoid High heat (over 225°F)

Incompatibility: Oxidizing materials.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: By fire: CO₂, CO, mercury vapors, partially decomposed hydrocarbons, oxides of nitrogen, aldehydes and other undetermined irritating and or toxic fumes or vapors.

11. TOXICOLOGICAL INFORMATION

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

3. 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 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.

14. TRANSPORT

D.O.T. Shipping Name	none
Technical Shipping Name	Z-6644 Part A polyol, Plastic related material
D.O.T. Hazard Class	not classified
UN/NA Number	none
NMFC Item	Plastic material liquid No. 156240 Class 60

15. REGULATORY

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

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.