

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List) Veriflex® E1	Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.
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Section I

Manufacturer's name Cornerstone Research Group Inc.	Emergency Telephone Number 1-800-633-8253
Address (Number, Street, City, State and ZIP Code) 2750 Indian Ripple Road	Telephone Number for Information 1-937-320-1877
Dayton, Ohio 45440	Date Prepared July 24, 2007
	Signature of Preparer (optional)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Resorcinol (CAS# 108-46-3), Benzene, M-dihydroxy- * m-Benzenediol * 1,3-Benzenediol * C.I. 76505 * C.I. Developer 4 * Ci.I. Oxidation Base 31 * Developer O * Developer R * Developer RS * m-dihydroxybenzene * Durafur developer G * Fouramine RS * Fournine EW * m-Hydroquinone * 3-Hydroxycyclohexadien-1-one * m-Hydroxyphenol * 3-Hydroxyphenol * Nako TGG * NCI-C05970 * Pelagol Grey RS * Pelagol RS * Phenol, m-hydroxy- * RCRA waste number U201 * Resorcin * Resorcine *				
Bisphenol A Diglycidyl Ether (CAS # 1675-54-3), 2,2-Bis(4-2,3-epoxypropyloxy)phenyl)propane * Bis(4-glycidylloxyphenyl)dimethylmethane * 2,2-Bis(p-glycidylloxyphenyl)propane * 2,2-Bis(4-hydroxyphenyl)propane, diglycidyl ether * Bis(4-hydroxyphenyl)dimethylmethane diglycidyl ether * BPDGE* D.E.R. 332 * Dian-bis-glycidylether (Czeh) * Dian diglycidyl ether * Diglycidyl bisphenol A ether * Diglycidyl ether of 2,2-bis(p-hydroxyphenyl)propane * diglycidyl ether of 2,2-bis(4-hydroxyphenyl)propane * Diglycidyl ether of bisphenol A * Diglycidyl ether of 4,4'-isopropylidenediphenol * 4,4'-dihydroxydiphenyldimethylmethane diglycidyl ether * p,p'-dihydroxydiphenyldimethylmethane diglycidyl ether * Diomethane diglycidyl ether * Epi-Rez 508 * Epi-Rez 510 * Epotuf 37-140 * Epoxide A * ERL-2774 * GY 6010 * 4,4'-Isopropylidenediphenol diglycidyl ether * 2,2'-((1-Methylethylidene)bis(4,1-phenyleneoxymethylene))bisoxirane * Oligomer 340				

HMIS Rating

HEALTH: 3*

FLAMMABILITY: 0

PHPHYSICAL HAZARDS: 1

NFPA Rating

HEALTH: 3

FLAMMABILITY: 0

REACTIVITY: 1

*additional chronic hazards present.

Section III—Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Partially soluble in water		

Appearance and Odor

Slightly yellow viscous liquid

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A	N/A	N/A	N/A

Extinguishing Media

Suitable: Use appropriate foam, dry chemical or carbon dioxide.

Unsuitable: Water or foam may cause frothing.

Special Fire Fighting Procedures

Protective Equipment: Wear a self-contained breathing apparatus (SCBA) and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions

(Reproduce locally)

OSHA 174 Sept. 1985

N/A: Data not available

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	High temperatures. May discolor on exposure to light and air

Incompatibility (Materials to Avoid)

Strong oxidizing agents. Iron and iron salts.

Hazardous Decomposition or Byproducts

Carbon monoxide, Carbon dioxide

Hazardous Polymerization	May Occur	X	Conditions to Avoid
	Will Not Occur		High temperatures

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
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Health Hazards (Acute and Chronic)

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

SENSITIZATION

Skin: May cause allergic skin reaction.

TARGET ORGANS

Liver, Spleen, Blood, Heart, Kidneys.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
	N/A	IARC Rating: Group 3	SARA Listed: No
			TSCA Inventory Item: Yes

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Medical Conditions

Generally Aggravated by Exposure

Emergency and First Aid Procedures

Ingestion: If swallowed, wash out mouth immediately with water provided person is conscious. Contact a physician immediately. Never give anything by mouth to a person who is unconscious or convulsing.

Inhalation: Remove the exposed person to fresh air; restore and/or support breathing as needed. Have qualified medical personnel administer oxygen if required.

Skin exposure: Wash affected area immediately with soap and copious amounts of water. Flush for at least 15 minutes. Remove contaminated shoes and clothing. Call a physician.

Eye exposure: Immediately flush eyes by gently flooding with running water for at least 15 minutes. Call a physician.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Evacuate unnecessary personnel.

Methods for Cleanup

Absorb on sand or vermiculate and place in closed containers for disposal. Ventilate area and wash spill site after material is picked up.

Environmental Precautions

Avoid contaminating water supply. Avoid contaminating sewers and waterways.

Waste Disposal Method

Contact a licensed professional waste disposal service to dispose of this material.

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local government environmental regulations.

Precautions to Be Taken in Handling and Storing

Store in tightly closed containers. Keep away from sources of ignition and strong oxidizers.

Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Other Precautions

Light and air sensitive.

Section VII—Control Measures

Respiratory Protection (*Specify Type*)

NIOSH/MSHA-approved respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face supplied air respirator with multi-purpose combination respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Ventilation	Local Exhaust	Special
	Mechanical exhaust required.	N/A
	Mechanical (<i>General</i>)	Other
	N/A	N/A

Protective Gloves

Compatible, chemical-resistant gloves

Eye Protection

Chemical safety goggles

Other Protective Clothing or Equipment

Safety shower and eye bath

Work/Hygienic Practices

Wash thoroughly after handling. Wash any contaminated clothing before reuse.

Disclaimer

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state or our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Cornerstone Research Group Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.