

**SOVEREIGN CHEMICAL COMPANY**

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Material Safety Data Sheet

Elaztobond™ Resins

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer: SI Group. 2750 Balltown Road Schenectady NY 12301	Emergency Contact : Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA)
Trade Name(s): Elaztobond™ A150, Elaztobond™ A250 & Elaztobond™ T6000	MSDS Number: 1782
Chemical Name: Phenolic resin	Synonyms: Phenolic resin
Prepared By: Sovereign Chemical Company	Date of Issue: May 15, 2009 Revision Number: 3 (supersedes May 27, 2005) Changes: 3 year update

2. INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>
Phenolic resin	N/A	> 99	NE	NE
Formaldehyde	50-00-0	< 0.3	0.3 ppm ceiling	0.75 ppm

PEL and TLV values are reported as TWA unless otherwise noted.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Use appropriate personal protective equipment. During fire situations, irritating and toxic gases such as phenol, formaldehyde and oxides of carbon may be generated. Keep from entering storm or sanitary sewers, ground water, or soil. Avoid contact with skin, eyes, clothing and inhalation of dust or material's vapors. Use with adequate ventilation. Wash thoroughly after handling. May contain residual formaldehyde and/or free phenol. Review the MSDS before using this product.

HMIS: Health - 2; Fire - 1; Reactivity - 0; Protection - E* - safety glasses, gloves, dust mask

*This is recommended personal protection equipment, final personal protection equipment should be determined by the plant safety department based on the actual conditions under which the product is used.

Potential Health Effects:

Eye: Will cause eye burns

Skin Contact: May cause irritation and burns.

Ingestion: Harmful if swallowed.

Inhalation: Possible temporary irritation of mucous membranes if exposure is prolonged.

Carcinogenicity: Per NTP carcinogenicity reasonably anticipated. IARC - yes (phenol <1%). Phenols is listed on the SARA Title III, Section 313 Toxic Chemical List. Per OSHA-potential cancer hazard. May release Formaldehyde and/or phenol.

4. FIRST AID MEASURES

Skin: Remove contaminated clothing and wash the exposed skin with large amounts of water. See a physician if irritation persists.

Eye: Immediately flush eyes with flowing water for at least 15 minutes. See a physician if irritation persists.

Inhalation: Move person to non-contaminated air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. If symptoms of respiratory tract irritation persists, seek medical attention.

Ingestion: If the material is swallowed, get immediate medical attention or advice. The signs and symptoms that may result from an emergency or an unexpected acute overexposure include: gastritis.

Cardiovascular: The signs and symptoms that may result from an emergency or acute overexposure include: arrhythmia.

Central Nervous System: Monitor for shock and treat accordingly.

Notes to Physician: Provide general support measures and treat symptomatically. A specific antidote is not known. Some of the symptoms presented may become life threatening if the exposure is a result of an emergency or an unexpected acute overexposure. Additionally, some workers with certain pre-existing medical conditions such as asthma, allergies or impaired pulmonary and/or liver functions or who may be particularly susceptible to this material may be affected by exposure to this material.

5. FIRE FIGHTING MEASURES

Flash Point: >200 F (93C) TAG Closed Cup
Temperature: ND

LEL: ND

UEL: ND

Auto Ignition

Use water spray, dry chemical, regular foam or carbon dioxide to extinguish fires. In the event of fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece, operated in the positive pressure mode. During fire situations, irritating and toxic gases such as phenol, formaldehyde and oxides of carbon may be generated. Pastilles/Flakes present no special fire or explosion hazard; however, dust generated during handling or storage can create explosive mixtures in the air.

6. ACCIDENTAL RELEASE MEASURES

Ventilate the contaminated area. Eliminate ignition sources including sources of electrical, static or frictional sparks. Vacuum or sweep up material and place in containers applicable for ultimate transportation and disposal. Individuals involved in the cleanup should wear appropriate personal protective equipment. See Section 8.

Unnecessary personnel should be kept clear of the area. Keep from entering storm or sanitary sewers, ground water, or soil. Dispose of following all local, state and federal laws. Other information as required.

7. HANDLING AND STORAGE

Storage Conditions: Protect containers from physical abuse. Keep the containers tightly closed. Store in a cool, dry, well ventilated area. Keep separate from incompatibles. Bond and ground containers when transferring material. Empty containers may contain product residue. Do not reuse empty containers.

Handling: Guard against dust accumulation. Good housekeeping and engineering practices should be employed to prevent the generation and accumulation of dusts. When the container is empty it may contain product residue including vapors which could accumulate. Therefore do not cut, weld, drill, grind empty containers. Individuals handling this product should wear personal protective equipment specified in Section 8. Plant environment should include controls and equipment specified in Section 8.

8. EXPOSURE CONTROL - PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation should be provided. Design details for local exhaust ventilation systems may be found in the latest edition of "Industrial Ventilation: A Manual of Recommended Practices" published by the ACGIH Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48910. The need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Local exhaust ventilation systems should be designed by a professional engineer.

Respiratory Protection: Wear a dust mask if necessary.

Eye Protection: Safety glasses with side shields are recommended for any type of handling. Dust-tight goggles are recommended for dusty operations of areas where vapors accumulate.

Protection Gloves: Gloves impervious to dust or vapor

Other Protection Items: Neoprene or nitrile rubber coated apron or other body covering may be required if there is a possibility of regular work clothing becoming contaminated with the product. All soiled or dirty clothing and personal protective equipment should be thoroughly cleaned before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Solid	Melt Point: 212 °F (100.0 C)
Vapor Density (Air = 1): > 1	Octanol/Water Partition Coefficient: NE
Vapor Pressure: NA	Evaporation Rate : <Ether
Odor: Phenol: 0.060 ppm	Specific Gravity: 1.25
% Volatile by Volume: NA	Boiling Point: NA
% Solubility (H₂O) : NA	pH: NA
Other: None	

10. STABILITY AND REACTIVITY

Stability /Polymerization: Stable at normal storage and handling temperatures.

Conditions to avoid: Avoid ignition sources where dust is produced.

Incompatibility (conditions to avoid): Acids and strong oxidizing agents.

Hazardous Decomposition Products: Upon decomposition, this product may yield, carbon monoxide, carbon dioxide and other low molecular weight hydrocarbons.

Special Sensitivity: None that are known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion: Oral LD50: FORMALDEHYDE [Rat] : 100 mg/kg.

Acute Skin Contact:Dermal LD50: FORMALDEHYDE: [Rabbit]: 270 mg/kg.

Acute Inhalation: Inhalation LC50: FORMALDEHYDE [Rat]: 165 ppm

CARCINOGENICITY:

NTP- Report on Carcinogens-Suspect carcinogen, FORMALDEHYDE – Suspect Carcinogen

IARC-Group 2A(probably carcinogenic to humans): FORMALDEHYDE

OSHA-Regulated Carcinogens: FORMALDEHYDE

12. ECOLOGICAL INFORMATION

Mobility:

In water: Not soluble.

Persistence and degradability: Detailed information on this product is not available.

Ecotoxicity: Do not discharge waste into natural water courses or sewers.

13. DISPOSAL CONSIDERATIONS

Product, all product residues and packaging should be disposed of in an EPA approved incinerator or landfill in accordance with all local, state, and/or federal regulations.

CERCLA/SARA- Hazardous substances and their Reportable Quantities

FORMALDEHYDE 50-00-0 100 lb. (45.4 kg) Final RQ

New York- Reporting of Release Part 597 – List Of Hazardous Substances

FORMALDEHYDE 50-00-0 Air RQ= 100 lbs; Land/water RQ = 1 lb.

14. TRANSPORTATION INFORMATION

US DOT : Not Hazardous

Shipping name Resin, coal tar or petroleum

IMDG Code:

Shipping name Resin, coal tar or petroleum

ICAO/IATA:

Shipping name Resin, coal tar or petroleum

15. REGULATORY INFORMATION

SARA Hazard Classification:

Immediate (Acute) Health: yes

Delayed (Chronic) Health: yes

Sudden Release of Pressure: no

Reactive: no

Fire: no

CERCLA/RCRA: Main ingredients not listed.

Clean Air Act: Main ingredients not listed.

SARA Title III, Section 302: This product contains:

50-00-0 FORMALDEHYDE 500 lb. TPQ; 100 lb EPCRA RQ

SARA Title III, Section 313: Emission Reporting

50-00-0 Formaldehyde Form R reporting required for 0.1 % de minimis concentration.

OSHA- List of highly hazardous Chemicals (29CFR 1910.119)

FORMALDEHYDE 50-00-0 threshold quantity = 1000 lbs.

U.S. Federal Regulations

CAA-1990 Hazardous Air pollutants

FORMALDEHYDE 50-00-0 Present

CAA-Accidental Release Prevention-Toxic Substances

FORMALDEHYDE 50-00-0 Threshold quantity = 15,000 lbs.

CAA-HON Rule-Organic HAPs

FORMALDEHYDE 50-00-0 Present

CAA-HON Rule-SOCMI Chemicals

FORMADEHYDE 50-00-0

CAA-Volatile Organic Compounds(VOCs) in SOCMI

FORMALDEHYDE 50-00-0 Present

California Proposition 65: Carcinogens and Reproductive Toxins.

FORMALDEHYDE 50-00-0 Carcinogen

Florida-Substance List

FORMALDEHYDE 50-00-0 Present

New Jersey- Department of Health RTK list

FORMALDEHYDE 50-00-0

New Jersey- Environmental Hazardous Substance List

FORMALDEHYDE 50-00-0 UN 1198 for reporting

New Jersey-Special Hazardous Substances

FORMALDEHYDE 50-00-0 Carcinogen, Mutagen

TSCA Inventory Status: TSCA Experimental

CANADA- Accelerated Reduction/Elimination of TOXICS (ARET)

FORMALDEHYDE 50-00-0 B-3

CANADA-NPRI (National Pollutant Release Inventory) for 2001

FORMALDEHYDE 50-00-0 Part 1 reporting required

CANADA-WHMIS Classifications: D2A, D2B

16. OTHER INFORMATION

NE = Not Established

NA = Not Applicable

ND = Not Determined

Information contained in this MSDS sheet have been gathered from the following documents:

Supplier MSDS for HRJ 14821
Chemical REG-A-DEX (J.J.Keller)
Environment Library on CD (BNA)
HMIS Implementation Manual (2nd Edition)
International Maritime Dangerous Goods Code, 2002 Edition
Dangerous Goods Regulations, IATA, 2003
CFR 49, Parts 100-185, October 1, 2003
ChemCheck Hand book, Specialty Technical Publishers.
NIOSH Pocket Guide to Chemical Hazards,
ACGIH Threshold Limit Values, 1998
IARC WEB site
NTP WEB site

IMPORTANT SAFETY NOTICE: The information in the Material Safety Data Sheet relates only to the specific material(s) described herein and does not relate to use in combination with any other material or substance or in any process. We believe that the information contained herein is current as of the date of issue of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of this product are not within the control of Sovereign Chemical Company, it is the user's obligation to determine the conditions of safe use of the product.

Users of this product should study this Material Safety Data Sheet and become aware of the product hazards and safety information before using the product. Users should also notify their employees, agents, and contractors of the information on this Material Safety Data Sheet and any product hazards and safety information in order to provide safe use of this product.

Sovereign Chemical Company
1225 West Market Street
Akron, OH 44313

Dear Customer:

Section 313 of SARA Title III (also known as the Emergency Planning and Community Right to Know Act, or EPCRA) require certain suppliers of mixtures or trade name products to notify their customers when such mixtures or trade name products contain chemicals listed in Section 313. This letter constitutes a supplier notification that the following product you ordered contains one or more chemicals on the Section 313 list (*) as noted below:

Product Name:	Elaztobond A150	
Chemical Name (*)	CAS #	% Composition
Formaldehyde	50-00-0	> 50ppb

In addition, an MSDS for this product is enclosed for your use.

If you are a distributor and you sell this product to another customer (s), you are required under Section 313 to furnish the same information and MSDS to that customer (s).

If you have any questions, please do not hesitate to contact our Technical Department at 330-869-0500.

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