

MATERIAL SAFETY DATA SHEET

DAUBERT CHEMICAL COMPANY

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HMIS HAZARD RATING

Health	2
Fire	0
Reactivity	0
Personal Protection	B

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By: M. Hogan III

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **DAUBOND 9010W55**
Chemical Family: Modified Epoxy Resin Emulsion
Material Usage: 2-Component Adhesive/Coating

SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Epoxy Resin CAS #25068-38-6	53-55	None Established
Ethoxylate CAS # Proprietary	1-2	None Established

SECTION 3: HEALTH HAZARD INFORMATION

Emergency Overview: Can cause skin irritation, eye irritation, and allergic skin reaction.
Primary Route(s) of Entry: Dermal.

SECTION 4: FIRST AID PROCEDURES

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes. Seek immediate medical attention.

Inhalation: Remove to fresh air. Seek immediate medical attention.

Eyes: Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.

Overexposure Effects: Can cause skin irritation, eye irritation, and allergic skin reaction.

Medical Conditions Aggravated by Exposure: Allergy, eczema or skin conditions.

Additional Information: Promptly remove wet contaminated non-impervious clothing, Wash before reuse.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >300 °F. (TCC)

Explosive Limits: LEL: None Established UEL: None Established

Small Fires: Dry chemical, CO₂, water spray, or alcohol-resistant foam.

Large Fires: Water spray, fog, or alcohol-resistant foam. Move container from fire area if you can do it without risk.

Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose holder or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

Special Firefighting Protection/Emergency Action: Fire may produce irritating or poisonous gases. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 1/2 mile in all directions if tank, rail car or tank truck is involved in fire. If runoff from fire control occurs, notify the appropriate authorities.

Unusual Fire/Explosion Hazards: Dried residue may be ignited by extreme heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire.

Products of Combustion: Carbon monoxide, carbon dioxide, miscellaneous hydrocarbons.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

SECTION 7: SAFE HANDLING INFORMATION

Signal Word: Warning!

Precautions: Can cause skin irritation, eye irritation, and allergic skin reaction. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Storage Information: Store in cool, dry area in sealed containers. Keep containers closed to prevent moisture absorption and contamination.

SECTION 8: EXPOSURE CONTROLS

Personal Protective Equipment: Wear appropriate equipment to prevent eye or skin contact. Use of barrier cream recommended.

Skin Protection: Wear impervious gloves.

Respiratory Protection: Organic chemical cartridge respirator, if needed.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: Good general mechanical ventilation and local exhaust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color:	White
Appearance:	Liquid
Odor:	Faint, Sweet
Boiling Point (initial):	212 °F.
Evaporation Rate (n-Butyl Acetate=1):	0.33
Vapor Pressure (mmHg @ 20 °C):	17.5 mmHg
Vapor Density (air=1):	<1
Solubility in Water:	Dispersible
Specific Gravity:	1.09 ± 0.02
pH:	7.0 – 11.5
Percent Volatile by Volume:	48.1 ± 1

SECTION 10: STABILITY AND REACTIVITY

Conditions to Avoid: Avoid strong acids or bases in bulk and elevated temperatures.

Stability: Stable.

Incompatibility: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, aldehydes.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Effects (LD50):	(Rat) > 5,000 mg/kg.
Acute Dermal Toxicity (LD50):	(Rabbit) > 6000 mg/kg.
Sensitization:	Moderate sensitizer.
Skin Irritation:	(Rabbit) Moderate irritation.
Eye Irritation:	(Rabbit) Slight irritation.
Teratogenicity:	(Rat, Rabbit) No adverse effects on embryonic or fetal development were observed.

Mutagenicity:

Ames Tests: both positive and negative results

Hamster Bone Marrow Cytogenetics (in vivo): negative

Mouse Spermatocytes Cytogenetics (in vivo): negative

Micronucleus Test (in vivo): negative

Mouse Dominant Lethal Test: negative

Alkylation of DNA: positive

Human Mononucleated WBC (in vitro): negative

Host Mediated Assay: negative

Sub-Chronic: (Rat) No observable effect at highest level studied (1000 mg/kg/day for 28 days) in oral feeding study.

Chronic Skin Exposure Effects:

2-Year Dermal Study in Mice: no treatment related effects

2-Year Skin Painting Studies:

A) C3HF/BD Mice: no increased tumor incidence

B) C57BL/6BD Mice: slight increase in epidermal localized carcinomas at high dose

C) C3H Mice: no tumors

Mice receiving skin applications of the Diglycidyl Ether of Bisphenol A or essentially identical resins for two years have yielded very limited evidence of weak carcinogenicity. The published report on this study concludes that this resin product "is not a systemic carcinogen when applied to the skin of CF-I mice" and the tumor data "was of no biological importance". Based on all available data, IARC (International Agency for Research on Cancer) has concluded in 1988 that DGEBA is not classified as a carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability: (Modified Sturm method): ~.1 2%
Fish Toxicity: Rainbow Trout (96hr.): LC50 1.5 mg/l
Zebra Fish (96hr.): LC50 2.4 mg/l

Invertebrate Toxicity: Daphnia Toxicity (24 hr.): EC50 3.6 mg/l.

SECTION 13: DISPOSAL CONSIDERATION

Waste Disposal Method: Dispose in accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

Department of Transportation: Not regulated as a hazardous material by the U.S. Dept. of Transportation (DOT) 49 CFR 172.101 hazardous materials table.

SECTION 15: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)
VOC per gallon: Nil (no solvent)
VOC per Gallon minus exempt solvents & water: Nil
VOC Vapor Pressure: Not Applicable

EPA Hazardous Waste Number(s) (40 CFR Part 261): NONE

EPA Hazard Category (40 CFR Part 370): IMMEDIATE (ACUTE)
DELAYED (CHRONIC)

US Federal Regulations:

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

TSCA Section 8(b) - Inventory Status: All chemical components of this product are in compliance with TSCA inventory requirements.

TSCA Section 12(b) - Export Notification: This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

SARA TITLE III:

This product contains the following TOXIC CHEMICALS subject to the Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40 CFR Part 372:

Chemical	CAS No.	Wt%
NONE		

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to Emergency Planning Requirements under Sec. 301-303 (40 CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:

Chemical	CAS No.	Wt%	RQ/TPQ Lbs
NONE			

This product contains the following (CERCLA LIST) HAZARDOUS SUBSTANCE(S) subject to Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302):

Chemical	CAS No.	Wt%	Final RQ Lbs
NONE			

International Regulations:

Canadian Inventory Status: All components included on the Domestic Substances List (DSL).

State Regulations:

CALIFORNIA PROPOSITION 65:

This product may contain trace quantities of chemicals identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

New Jersey Right-to-Know: The following is required composition information:

Chemical Name: Phenol, 4, 4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane
Common Name: Bisphenol A Diglycidyl Ether Polymer
CAS Number: 25068-38-6

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane
Common Name: Bisphenol A Diglycidyl Ether Polymer
CAS Number: 25068-38-6
Comment: Not on Pennsylvania Hazardous Substance List

SECTION 16: OTHER INFORMATION

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.