

# MATERIAL SAFETY DATA SHEET

DAUBERT CHEMICAL COMPANY  
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| HMIS HAZARD RATING  |   |
|---------------------|---|
| Health              | 2 |
| Fire                | 1 |
| Reactivity          | 0 |
| Personal Protection | B |

Date of Review: June 14, 2010  
Date of Preparation: February 1990

Revised: June 21, 2004  
By: M. Hogan

## SECTION 1: PRODUCT IDENTIFICATION

Product Name: **DAUBOND 8818AHV**  
Chemical Family: Modified Epoxy Resin  
Material Usage: 2-Component Adhesive

## SECTION 2: HAZARDOUS INGREDIENTS

| Component   | Wt%   | Recommended Exposure Limits (TWA)   |
|---|-------|---|
| <sup>[1]</sup> Methylene Chloride<br>CAS #75-09-2 | 40-45 | OSHA PEL: 25 ppm<br>ACGIH TLV: 50 ppm   |
| Calcium Carbonate<br>CAS #1317-65-3               | 20-40 | OSHA PEL: 5 mg/m <sup>3</sup> (respirable fraction)<br>OSHA PEL: 15 mg/m <sup>3</sup> (total dust)<br>ACGIH TLV: 10 mg/m <sup>3</sup> ( <sup>[2]</sup> nuisance dust) |
| Epoxy Resin<br>CAS #25068-38-6                    | 20-40 | None Established  |
| <sup>[1]</sup> Propylene Oxide<br>CAS #75-56-9    | <.5   | OSHA PEL: 20 ppm<br>ACGIH TLV: 20 ppm   |

<sup>[1]</sup>See Section 3

<sup>[2]</sup>This component poses a hazard only if the liquid product dries and a dust is formed.

## SECTION 3: HEALTH HAZARD INFORMATION

**Primary Routes of Entry:** Inhalation, skin absorption.

**Acute Effects:** Skin, eye, and respiratory irritation, possibly severe. Excessive inhalation may produce CNS depression (dizziness, nausea, headache, incoordination) which could progress to coma and death.

**Chronic Effects:** Prolonged or repeated skin contact may defat the skin and cause dermatitis; allergic reactions may arise in sensitive individuals. Excessive long-term exposure may cause liver or kidney damage.

**Carcinogenicity:** *Methylene Chloride* has been evaluated for possible cancer causing effects in laboratory animals. Inhalation studies at concentrations of 2,000 and 4,000 ppm increased the incidence of malignant liver and lung

tumors in mice. Three inhalation studies of rats have shown increased incidence of benign mammary gland tumors in female rats at concentrations of 500 ppm and above and increases in benign mammary gland tumors in males at concentrations of 1,500 ppm and above. Rats exposed to 50 and 200 ppm via inhalation showed no increased incidence of tumors. Mice and rats exposed by ingestion at levels up to 250 mg/kg/day lifetime and hamsters exposed via inhalation to concentrations up to 3,5000 ppm lifetime did not show an increased incidence of tumors.

Epidemiology studies of 751 humans chronically exposed to methylene chloride in the workplace, of which 252 were exposed for a minimum of 20 years, did not demonstrate any increase in deaths caused by cancer or cardiac problems.

A second study of 2,227 workers confirmed these results. *Methylene chloride* is not believed to pose a measurable carcinogenic risk to man when handled as recommended.

Propylene oxide has caused an increased incidence of nasal tumors in rats exposed by inhalation, forestomach tumors in rats exposed by gavage (force-fed in oil) and injection site tumors when injected under the skin of rats. Propylene oxide is listed as an animal carcinogen by IARC/NTP.

*Methylene chloride* is listed as a possible human carcinogen by IARC (2B), a probable human carcinogen by NTP (RA), an animal carcinogen by ACGIH (A3), and a reasonably anticipated human carcinogen by EPA (B2).

**Special Remarks:** Methylene chloride may increase levels of carbon monoxide in the blood and reduce its oxygen-carrying capacity. Heavy drinkers or smokers, as well as persons with a history of cardiovascular disease, should avoid exposure.

**Pre-Existing Medical Conditions Aggravated by Exposure:** Carboxyhemoglobinemia may aggravate any pre-existing condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or rhythm disorders of the heart, anemias, acute and chronic liver or kidney disease.

#### SECTION 4: FIRST AID PROCEDURES

**Inhalation:** Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.

**Eyes:** In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.

**Skin:** Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.

**Ingestion:** DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

#### SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: None (TCC)

Explosive Limits: LEL:12.0 UEL: 22.0 (in air)

##### EXTINGUISHING MEDIA

Small Fires: Dry chemical, CO<sub>2</sub>, 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:** May be ignited by extreme heat, sparks or flames. Container may explode in heat of fire.

**Products of Combustion:** Carbon monoxide, carbon dioxide, hydrogen chloride, phosgene, oxides of nitrogen,

miscellaneous hydrocarbons.

## SECTION 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

**Steps to be taken in case Material is Released or Spilled:** Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.

**Small Spills:** Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

**Large Spills:** Dike far ahead of liquid spill for later disposal.

## SECTION 7: SAFE HANDLING INFORMATION

**Precautions To Be Taken In Handling/Storage:** Store in cool, well-ventilated area. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors.

**Other Precautions:** Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes. Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

## SECTION 8: EXPOSURE CONTROLS

**Respiratory Protection:** NIOSH-approved respirator for organic vapor and mist to control exposure where ventilation is inadequate.

**Ventilation:** General and local exhaust.

**Personal Protective Equipment:**

Protective Gloves: Impervious gloves (Viton, PVOH, etc.)

Eye Protection: Safety glasses with sideshields or chemical goggles.

**Other Protective Clothing or Equipment:** If splashing is anticipated, wear rubber apron and boots or other protective equipment to minimize contact.

## SECTION 9: REACTIVITY HAZARD DATA

**Stability:** Stable

**Incompatibility:** Alkali metals, powdered aluminum, acids, bases, oxidizers.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, hydrogen chloride, phosgene, oxides of nitrogen, miscellaneous hydrocarbons.

**Hazardous Polymerization:** Will not occur.

## SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                       |
|---------------------------------------|-----------------------|
| Color:                                | Pink                  |
| Appearance:                           | Liquid                |
| Odor:                                 | Sharp, characteristic |
| Boiling Point (initial):              | 103°F.                |
| Evaporation Rate (n-Butyl Acetate=1): | 14.5                  |
| Vapor Pressure (mmHg @ 20°C):         | 350                   |
| Vapor Density (air=1):                | 2.9                   |
| Solubility in Water:                  | Almost insoluble      |
| Specific Gravity:                     | 1.53 ± .02            |
| pH:                                   | Not Applicable        |
| Percent Volatile by Volume:           | 44                    |

## SECTION 11: DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced.

|   |
|---|
| <b>SECTION 12: REGULATORY INFORMATION</b> |
|---|

Volatile Organic Content: (Calculated Values)

VOC per liter: 2.9 g/l ( 0.02 lbs/gal)  
 VOC per liter minus exempt solvents & water: 5.2 g/l (0.04 lbs/gal)

EPA Hazardous Waste Number(s) (40 CFR Part 261): U080

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

**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%   |
|--------------------|---------|-------|
| Methylene Chloride | 75092   | 43.15 |
| Propylene Oxide    | 75569   | .22   |

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 |
|-----------------|---------|-----|------------|
| Propylene Oxide | 75569   | .22 |            |

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 |
|--------------------|---------|-------|--------------|
| Methylene Chloride | 75092   | 43.15 |              |
| Propylene Oxide    | 75569   | .22   |              |

**CALIFORNIA PROPOSITION 65:**

This product may contain trace quantities of the following chemicals that are 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:

| Chemical           | CAS No. | Estimated Concentration % |
|--------------------|---------|---------------------------|
| Methylene Chloride | 75092   | 43.15                     |
| Propylene Oxide    | 75569   | .22                       |

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.

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## HMIS HAZARD RATING

|                     |   |
|---------------------|---|
| Health              | 2 |
| Fire                | 2 |
| Reactivity          | 0 |
| Personal Protection | B |

Date of Review: March 2, 2011  
Date of Preparation: February 1990

Revised: June 21, 2004  
By: Martin T. Hogan III

## SECTION 1: PRODUCT IDENTIFICATION

Product Name: **DAUBOND 8818BHV**  
Chemical Family: Modified Polyamide Resin  
Material Usage: 2-Component Adhesive

## SECTION 2: HAZARDOUS INGREDIENTS

| Component  | Wt%   | Recommended Exposure Limits (TWA)  |
|--|-------|--|
| Polyamide Resin<br>CAS # Trade Secret                              | 20-30 | None Established   |
| Calcium Carbonate<br>CAS #1317-65-3                                | 55-65 | OSHA PEL: 5 mg/m <sup>3</sup> respirable fraction)<br>OSHA PEL: 15 mg/m <sup>3</sup> (total dust)<br>ACGIH TLV: 10 mg/m <sup>3</sup> ( <sup>[1]</sup> nuisance dust) |
| Triethylene Tetramine<br>CAS #112-24-3                             | <5    | None Established   |
| *Solvent Naphtha (Petroleum),<br>Light Aromatic<br>CAS #64742-95-6 | 14-17 | OSHA PEL: None Established<br>ACGIH TLV: None Established<br>(50 ppm recommended)  |
| *contains Trimethylbenzenes<br>CAS #25551-13-7                     | <11   | OSHA PEL: 25 ppm   |

<sup>[1]</sup>This component poses a hazard only if the liquid product dries and a dust is formed.

### SECTION 3: HEALTH HAZARD INFORMATION

**Primary Routes of Entry:** Inhalation, skin absorption.

**Acute Effects:** Skin, eye, and respiratory irritation, possibly severe. Excessive inhalation may produce CNS depression (dizziness, nausea, headache, incoordination) which could progress to coma and death.

**Chronic Effects:** Prolonged or repeated skin contact may defat the skin and cause dermatitis; allergic reactions may arise in sensitive individuals.

**Carcinogenicity:** None of the components of this product are listed as carcinogens by NTP, IARC, or OSHA 1910 (Z).

**Pre-Existing Medical Conditions Aggravated by Exposure:** Dermatitis

### SECTION 4: FIRST AID PROCEDURES

**Inhalation:** Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.

**Eyes:** In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.

**Skin:** Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.

**Ingestion:** DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

### SECTION 5: FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 108 °F. (TCC)

**Explosive Limits:** LEL = 1% UEL = 7%

#### EXTINGUISHING MEDIA:

**Small Fires:** Dry chemical, CO<sub>2</sub>, 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:** Flammable/combustible material; may be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

**Products of Combustion:** Carbon monoxide, carbon dioxide, ammonia, cyanide, oxides of nitrogen, miscellaneous hydrocarbons.

## SECTION 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

**Steps to be Taken in case Material is Released or Spilled:** Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.

**Small Spills:** Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

**Large Spills:** Dike far ahead of liquid spill for later disposal.

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**Precautions To Be Taken In Handling/Storage:** Store in cool, well-ventilated area. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors.

**Other Precautions:** Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes. Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

## SECTION 8: EXPOSURE CONTROLS

**Respiratory Protection:** NIOSH-approved respirator for organic vapor and mist to control exposure where ventilation is inadequate.

**Ventilation:** General and local exhaust.

**Personal Protective Equipment:**

Protective Gloves: Impervious gloves (Viton, PVOH, etc.)

Eye Protection: Safety glasses with sideshields or chemical goggles.

Other Protective Clothing or Equipment: If splashing is anticipated, wear rubber apron and boots or other protective equipment to minimize contact.

## SECTION 9: REACTIVITY HAZARD DATA

**Stability:** Stable

**Incompatibility:** Strong acids, bases, oxidizers.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, ammonia, cyanide, oxides of nitrogen, miscellaneous hydrocarbons.

**Hazardous Polymerization:** Will not occur.

## SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                |
|---------------------------------------|----------------|
| Color:                                | Yellow         |
| Appearance:                           | Liquid         |
| Odor:                                 | Aromatic       |
| Boiling Point (initial):              | 320 °F.        |
| Evaporation Rate (n-Butyl Acetate=1): | 0.19           |
| Vapor Pressure (mmHg @ 20 °C):        | <1             |
| Vapor Density (air=1):                | 4.1            |
| Solubility in Water:                  | Appreciable    |
| Specific Gravity:                     | 1.56           |
| pH:                                   | Not Applicable |
| Percent Volatile by Volume:           | 29             |

## SECTION 11: DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced.

## SECTION 12: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per liter: 254 grams/liter (2.1 lbs./gal.)

VOC per liter minus exempt solvents & water: 254 grams/liter (2.1 lbs./gal.)

EPA Hazardous Waste Number(s) (40 CFR Part 261): U239, D001

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

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%             |
|-------------------------|-----------|-----------------|
| Xylene                  | 1330-20-7 | 1.5             |
| 1,2,4-Trimethylbenzenes | 95-63-6   | <5.0 (variable) |

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 |
|----------|-----------|-----|--------------|
| Xylene   | 1330-20-7 | 1.5 | 1000         |

CALIFORNIA PROPOSITION 65:

This product may contain trace quantities of the following chemicals that are 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:

| Chemical | CAS No. | Estimated Concentration % |
|----------|---------|---------------------------|
| Benzene  | 71432   | Trace (<.0002)            |

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