

MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING

Health	2
Fire	3
Reactivity	0
Personal Protection	B

Date of Review: November 17, 2010
Date of Preparation: February 12, 2002

Revised: August 14, 2007
By: M. Hogan

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **DAUBOND 2711**
Chemical Family: Styrene-Butadiene Rubber/Resin Blend
Material Usage: Adhesive

EMERGENCY OVERVIEW: Solvent-based product. Flammable liquid; may be irritating to eyes and skin. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Heptane CAS #142-82-5	35-37	OSHA PEL: 500 ppm, 1600 mg/m ³ ACGIH TLV: 400 ppm, 1600 mg/m ³
Methyl Acetate CAS #79-20-9	43-45	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm
Methanol CAS #67-56-1	<1.2	OSHA PEL : 200 ppm ACGIH TLV: 200 ppm
Methycyclohexane CAS #108-87-2	<3.9	OSHA PEL: 500 ppm ACGIH TLV: 400 ppm
Octanes CAS #Mixture	<3.9	OSHA PEL: 500 ppm ACGIH TLV: 300 ppm

SECTION 3: HEALTH HAZARD INFORMATION

Primary Routes of Entry: Skin absorption, inhalation.

Acute Effects: Skin and eye irritation.

Chronic Effects: Prolonged or repeated skin contact may defat the skin and cause dermatitis; allergic reactions may arise in sensitive individuals. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as solvent or Painter's Syndrome).

Acute Overexposure: Excessive inhalation of vapors can cause nasal and respiratory irritation, central nervous system effects, including dizziness, weakness, fatigue, nausea, headache, and possibly unconsciousness, and even death.

Carcinogenicity: This product is not known to contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC or NTP.

Pre-Existing Medical Conditions Aggravated by Exposure: Dermatitis, asthma. Persons with pre-existing heart disorders may be more susceptible to irregular heartbeats (arrhythmias) if exposed to high concentrations of the solvent in this adhesive (heptane). Disorders of the following organs or organ systems that may be aggravated by significant exposure to this material or its components include: Skin, Respiratory System, Liver, Kidneys, and Central Nervous System (CNS).

Target Organs: May cause damage to the following organs: kidneys, lungs, liver, mucous membranes, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

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.

Notes to Physician regarding Heptane: INHALATION: Inhalation overexposure can produce toxic effects. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Administer supplemental oxygen with assisted ventilation, as required. This material (or a component) sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.

INGESTION: If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 9°F. (TCC)

Explosive Limits: LEL: 1.0

UEL: 16.0

EXTINGUISHING MEDIA

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: 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, 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, oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, miscellaneous hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Light Yellow
Appearance:	Liquid
Odor:	Petroleum Distillate
Boiling Point (initial):	132°F
Evaporation Rate (n-Butyl Acetate=1):	5.3
Vapor Pressure (mmHg @ 77°F.):	171
Vapor Density (air=1):	>1
Solubility in Water:	Moderate
Specific Gravity:	0.84 ± .02
pH:	Not Applicable
Percent Volatile by Volume:	83 ± 1

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: 2.52 lbs/gal (302 grams/liter)

VOC per liter minus exempt solvents & water: 4.19 lbs/gal (502 grams/liter)

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

EPA Hazard Category (40 CFR Part 370): IMMEDIATEL (ACUTE)
DELAYED (CHRONIC)
FIRE (FLAMMABLE)

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%
Methanol	67-56-1	<1.2

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			

CALIFORNIA PROPOSITION 65:

This product may contain trace quantities of 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:

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.