SIEMENS

Siemens Industry, Inc.
Water Technologies Business Unit

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: CAPASTIC PART B
Part Number: PFS96005
Chemical Family: Hardener, epoxy resin gel for metal adhesive repair and smoothing compound.

Manufacturer's Name: Siemens Industry, Inc. - Water Technologies Business Unit
Address: 2 Milltown Court, Union, NJ 07083
Product/Technical Information Phone Number: (908) 851-2277
Medical/Handling Emergency Phone Number: Call CHEMTREC at (800) 424-9300
24 hours a day
Transportation Emergency Phone Number: Call CHEMTREC at (800) 424-9300
24 hours a day
Revision Date/Revision Number: April 2011/Revision 3

SECTION 2 – COMPOSITION INFORMATION

Chemical Name	Percent by Weight	CAS#
Colloidal Silica	5 – 20	112945-52-5
Diethylene Triamine	5 – 20	111-40-0
Proprietary Ingredients	Balance	Proprietary

SECTION 3 – HAZARDS IDENTIFICATION

Appearance & Odor: Amine odor, yellow, paste consistency.

Emergency Overview: Corrosive. May cause severe damage to eyes and skin. Severe respiratory and digestive tract irritant. Risk of irreversible effects.

Fire & Explosion Hazards: May generate toxic, irritating combustion products. During a fire, carbon monoxide, carbon dioxide and nitrogen oxides may be generated.

Primary Route(s) of Exposure: Eye and skin contact, ingestion, inhalation of vapors.

Inhalation – Acute Effects: Inhalation of vapors may cause respiratory irritation, shortness of breath, wheezing, nausea, vomiting and upper airway edema. Vapors may damage contacted tissue. Inhalation of vapors or mists may cause an allergic reaction in sensitive individuals.

Skin Contact – Acute Effects: Skin contact causes pain, redness and severe irritation. May cause full thickness burns, ulceration and bleeding from the injured area. Diethylene triamine, an ingredient of this material, may be absorbed through the skin with possible systemic effects.

Skin Contact – Chronic Effects: Individuals chronically exposed to diethylene triamine, an ingredient of this material, may become sensitized with allergic reactions to exposure.

Eye Contact – Acute Effects: Contact of undiluted product with eyes quickly causes severe irritation and pain and may cause burns, necrosis and permanent eye injury and visual loss. Vapors may cause conjunctivitis and corneal edema causing temporary disturbance of vision.

Ingestion – Acute Effects: Ingestion may cause burns to the lips, tongue, mouth and throat; abdominal pain; diarrhea; bleeding of the gastrointestinal tract; and vomiting of blood. In severe cases may cause shock or collapse. Aspiration into the lungs may cause lung injury.

SECTION 4 – FIRST AID MEASURES

Inhalation First Aid: Remove affected person from area to fresh air and provide oxygen if breathing is difficult. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention promptly.

Skin Contact First Aid: Immediately remove clothing from affected area and wash skin for 15 minutes with flowing water. Clothing should be discarded or washed before reuse. Discard contaminated leather apparel. Obtain medical attention. DO NOT instruct person to neutralize affected skin area.

Eye Contact First Aid: Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyes open. Contacts should be removed before or during flushing. Obtain medical attention immediately, preferably from an ophthalmologist.

Ingestion First Aid: Do not induce vomiting. If victim is alert and not convulsing rinse mouth with water and give plenty of water to drink. If spontaneous vomiting occurs, have affected person lean forward with head down to avoid breathing in of vomitus. Rinse mouth again and give more water to drink. Obtain medical care and hospital treatment immediately.

Medical Conditions Aggravated: Asthma, chronic respiratory diseases, eye diseases, skin disorders and allergies are aggravated by exposure to product. Some individuals may become sensitized to diethylene triamine, an ingredient of this material. Once acquired, that sensitivity may be retained for many years with possible cross-sensitization to other amines.

Note to Physician: Treat patient symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point/Method: 175^{o}F (TCC)

Auto Ignition Temperature: Not determined. **Upper/Lower Explosion Limits**: Not applicable.

Extinguishing Media: Water fog, foam, carbon dioxide, or dry chemical.

Fire Fighting Procedures: Use NIOSH approved self-contained breathing apparatus, eye protection and proper protective gear. Do not direct solid stream of water or foam into burning molten material. Use water spray to reduce vapors.

Fire & Explosion Hazards: May generate toxic, irritating combustion products. During a fire, carbon monoxide, carbon dioxide and nitrogen oxides may be generated.

Hazardous Products of Decomposition and/or Combustion: Hazardous decomposition products include carbon dioxide, carbon monoxide, nitrogen oxides and irritating and toxic fumes at elevated temperatures.

NFPA Ratings: HEALTH- 3 FLAMMABILITY- 1 REACTIVITY- 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Provide ventilation. Wear complete protective clothing including self-contained breathing apparatus. Stop leak if possible to do so without risk. Reduce vapor spreading with water spray. If clean up is not possible, mix with dry soil or non-reactive absorbent material and sweep spilled substance into sealable containers for disposal. Collect run-off water for disposal. Do NOT wash away into sewer.

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State, Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 7 – HANDLING AND STORAGE

Handling: Follow curing schedule and mixing ratio recommended in the product literature when mixing with Capastic Part A. Keep away from heat, sparks and open flame. Avoid breathing fumes; provide adequate ventilation. Wear recommended protective gear.

Storage: Store in a cool, dry, well-ventilated area away from heat, sparks, open flame and incompatible materials. Keep containers closed until ready for use. Keep separated from strong oxidants, acids, food and feedstuffs.

General Comments: Containers of this material may be hazardous when empty since they retain product residues; observe all warnings and precautions listed for the product. Flush empty containers with water.

SECTION 8 –PERSONAL PROTECTION/ EXPOSURE CONTROL

Respiratory Protection: Wear a NIOSH-approved organic vapor cartridge respirator if use conditions generate vapors or mists. If sanding, grinding, or similar operations with the solid adhesive generates dusts, wear a NIOSH-approved high efficiency particulate respirator.

Skin Protection: Use protective clothing impervious to this material. Wear butyl rubber or neoprene gloves.

Eye Protection: Wear chemical safety goggles. If use conditions generate splashes; wear chemical goggles and a face shield.

Ventilation Protection: Use general exhaust ventilation to keep employee exposures below the exposure limits. Use local exhaust ventilation at the point of use if use conditions generate vapors or mists of this material or dusts of the solid adhesive.

Other Protection: Safety showers, with quick opening valves which stay open, and eye wash fountains, or other means of washing the eyes with a gentle flow of cool to tepid tap water, should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

Exposure Limits:
Exposure limits have not been established for this material. However, for its ingredients colloidal silica and diethylene triamine:

Ingredient	OSHA PEL mg/m^3 TWA	ACGIH TLV mg/m^3 TWA
Colloidal silica	80 / % SiO_2	3 (respirable)
Diethylene triamine	---	1 ppm (skin)

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Amine odor, yellow, paste consistency.

Boiling Point: 359-587^{o}F

Melting Point: N/D

Specific Gravity: 1.04

Solubility in Water: N/D

Volatile Percentage: 0.4%

pH: N/D

Liquid Density: >1.0 (water)

Weight/Gallon: 8.68 lb/gal

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Incompatibilities: Incompatible with mineral acids, oxidizing agents, acrylates and organic halides.

Polymerization: Hazardous polymerization will not occur.

Decomposition: Hazardous decomposition products include carbon dioxide, carbon monoxide, nitrogen oxides and irritating and toxic fumes at elevated temperatures.

Conditions to Avoid: Avoid mixing Capastic Part A and Capastic Part B in quantities greater than 1 lb unless the resulting mixture will be used immediately. Do not heat the mixed adhesive unless curing the surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up resulting in an exothermic reaction that may liberate toxic gasses.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicology Information: No information is available for this material. However, for diethylene triamine, an ingredient:

Oral LD 50 (rat) = 1080 mg/kg
Dermal LD 50 (rabbit) = 1090 mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose by incineration or landfill, where permitted by Federal, State and Local regulations. Do not discharge into sewer or waterways. Material that cannot be used or chemically reprocessed and empty containers should be disposed of in accordance with all applicable regulations. Product containers should be thoroughly emptied before disposal. Generators of waste material are required to evaluate all waste for compliance with RCRA and any local disposal procedures and regulations.

NOTE: State and local regulations may be more stringent than federal regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Proper Shipping Name: Corrosive Liquid, n.o.s. (Contains Diethylene triamine)
DOT Hazard Class: 8
Identification Number: UN1760

SECTION 15 – REGULATORY INFORMATION

OSHA Hazard Communication Standard: irritant
SARA Sections 311/312 Hazard Categories:

- Acute: yes
- Chronic: yes
- Fire: no
- Reactivity: no
- Pressure Release: no

California Proposition 65: No ingredients are identified on the Proposition 65 list.

SECTION 16 – OTHER INFORMATION

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial and local laws.

Revision Indicator: April 2007: Revised composition information, acute effects of inhalation, acute and chronic effects of skin contact, aggravated medical conditions, handling precautions, respiratory and ventilation protection, exposure limits, and toxicological information.