



ATS, INC

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ChemBond™ Putty Material Safety Data Sheet

Revised Jan 2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ChemBond Putty

Product Use Description: Epoxy Resin

Company: ATS, Inc.
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Richmond, CA 94801 USA

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Emergency Telephone Number: +1.510.234.3173

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Epoxy Phenol Novolac Resin	28064-14-4	80% or less
Thixotrope	66402-68-4	40% or less

CHEMICAL FAMILY: Epoxy Resin

3. HAZARDOUS IDENTIFICATION

PRODUCT SIGNAL WORD: Warning

PRODUCT HAZARDS: Possible Sensitizer

CHRONIC EFFECTS: Skin Sensitization (dermatitis)

EYE: Will cause moderate eye irritation

INHALATION: Unlikely except at highly elevated temperatures due to low vapor pressure. May cause an allergic reaction.

SKIN CONTACT: Possible skin irritant and sensitizer

INGESTION: Will cause illness

HMIS HAZARD RATING: HEALTH – 1 FLAMMABILITY – 1 REACTIVITY – 0
PERSONAL PROTECTION – C

NFPA HAZARD RATING: HEALTH – 1 FLAMMABILITY – 1 REACTIVITY – 0

CARCINOGENICITY: Not listed as an IARC, OSHA OR ACGIH potential carcinogen

SPECIAL PRECAUTIONS IN HANDLING AND STORAGE:

Emergency eyewash stations and safety showers must be close to any area of possible exposure.

4. FIRST AID MEASURES

EYES:	Flush with water immediately. Continue to flush for 30 minutes and obtain emergency medical attention.
SKIN:	Remove and do not reuse contaminated clothing. Wash exposed areas thoroughly with soap and water and flush for ten minutes. It is not recommended to remove resin from skin with solvents. Solvents only increase contact and dry the skin.
INGESTION:	Induce vomiting only if person is conscious. Obtain emergency medical help.
INHALATION:	Remove to fresh air. If breathing is labored administer oxygen. Call physician.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION:	Combustible liquid CLASS IIIB
LOWER EXPLOSIVE LIMITS:	N/A
FIRE & EXPLOSIVE HAZARDS:	When mixed with strong acids (organic/inorganic), strong oxidizing agents and bases.
FLASH POINT:	> 200°C Seta Flash-Closed Cup
EXTINGUISHING MEDIA:	Foam, water fog, dry chemical – carbon dioxide preferred
SPECIAL FIREFIGHTING PROCEDURES:	Use self-contained breathing apparatus and impervious turn out gear.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL:

Remove all possible sources of ignition or polymerization (see Section 5). Equip personnel with proper protection (see Section 7). Dike in spill to prevent from spreading. Collect for disposal. Use absorbent to soak up remainder liquid. Material will float on water. May be covered with foam or water fog if danger of ignition exists. Notify authorities as required by law.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Avoid inhalation of vapors. Wash thoroughly after handling.

Storage

Keep in closed or covered containers when not in use. Store in cool dry place with adequate ventilation. Do not store near heat or open flames.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers.

Personal protective equipment

Respiratory protection : If vapors are present, use a NIOSH/MSHA approved positive pressure, supplied air respirator

Hand protection : Neoprene gloves.
PVC disposable gloves
Nitrile rubber.
Impervious gloves.
The breakthrough time of the selected glove(s) must be greater than the intended use period.

Eye protection : If potential for splashing is present, splash goggles or a full face shield should be worn.

Skin Protection : DO NOT ALLOW ANY SKIN CONTACT. If potential for skin contact is present, impervious protection clothing should be worn. Neoprene coated fabric is recommended for this application.

Special instructions for protection and hygiene:

Discard contaminated articles. Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Paste/Putty.

Color : White, Gray or Brown.

Odor : Slight Aromatic.

Relative density : 2.89 (water = 1)

Vapor pressure : < 1 mm Hg @20°C

Boiling point/range : > 200°C

Flash point : > 300 °F (> 93°C)

10. STABILITY AND REACTIVITY

STABILITY:	Stable
HAZARDOUS POLYMERIZATION:	Will autopolymerize at very high temperatures
HAZARDOUS DECOMPOSITION PRODUCTS:	Fumes, carbon dioxide, carbon monoxide, acrid smoke, phenolics, aldehydes
CONDITIONS TO AVOID:	High heat, amines, strong oxidizers, acids and bases
INCOMPATIBILITY(Materials to Avoid):	Strong acids, bases and oxidizers

11. TOXICOLOGICAL INFORMATION

LD50 ORAL:	4,000 mg/kg (rat)	
	Possible Skin irritant and Sensitizer	
EXPOSURE LIMITS:	TLV: Not established	PEL: Not established

12. ECOLOGICAL INFORMATION

This material does not readily biodegrade. Do not allow material to reach ground or surface water or enter in sewage system.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Remove contaminated materials for disposal at a permitted facility using registered transporter

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION 49CFR172.101-102 CLASSIFICATION:	Not Hazardous
DOT SHIPPING NAME:	Not Regulated

15. REGULATORY INFORMATION

CHEMICAL NAME:	Phenol-formaldehyde Polymer, Glycidyl Ether
LISTED INVENTORIES:	On 40CFR710 Section 8b Chemical Substances Inventory and Canadian Domestic Substances List. EINECS Number: 500-006-8 Philippines PICCS Listed China SEPA Listed Japan MITI Listed Korea ECL Listed Australia AICS Listed

SARA/TITLE III:	
Section 311/312:	Not Hazardous
Section 313 Listed Chemicals:	None
CERCLA:	Not subject to any special reporting requirements
WHMIS:	D2B

16. OTHER INFORMATION

The information contained above is given in good faith based on the best data available at this time. No warranty, expressed or implied is made. User assumes full responsibility for determining appropriate use and application of the product. Prepared by : ATS, Inc. <http://www.atsduct.com>
