

Product: Advanced Repair Technology – Flex-Ease® – Part A**Manufacture's Name & Address**

Advanced Repair Technology
P.O. Box 510
Cherry Valley, NY 13317
607-264-9040

Emergency Telephone

**For Chemical Emergency Exposure, or
Accident**

Call CHEM TREC **800-424-9300** (24 hours)

Section I – Product Identification

Chemical Name:	Epoxy Resin Adhesive
Product/Trade Name:	Flex-Ease Epoxy Resin Compound Part A
Chemical Family:	Epoxy Resin
Synonyms:	Bisphenol A/Epichlorohydrin Condensate
CAS Registry #1	Proprietary - A blend of several materials
Formula:	Proprietary

Hazard Designations	HMIS	NPFA
Health	2	2
Flammability	1	1
Reactivity	1	0
Protective Equipment or Special Hazards	0	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Section II – Hazardous Ingredients/Identity Information

Ingredients	Percent	TLV (Units)
N/A		None established

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Boiling Point	N.A.
Freezing Point	N.A.
Melting Point	N.A.
Vapor Pressure	N.A.
Vapor Density	N.A.
Solubility in Water	None
Specific Gravity	1.16
% Volatility by Volume:	N.A.
Evaporation Rate	N.A.
State	Liquid
Viscosity	>10,000 Cps
Other Information	N.A.
Appearance & Odor	Thick, translucent liquid with little odor

Section IV – Fire & Explosion Hazard Data

Flash point (Method used): Over 250° C

Flammable Limits: Lower NA / Upper NA

Fire Extinguishing Media: TO EXTINGUISH FIRES INVOLVING THIS MATERIAL --USE WATER SPRAY, DRY CHEMICAL, OR CARBON DIOXIDE.

Special Fire Fighting Procedures:

IF NOT LEAKING, KEEP FIRE EXPOSED CONTAINERS COOL WITH A WATER SPRAY TO PREVENT RUPTURE DUE TO EXCESSIVE HEAT. HIGH PRESSURE WATER HOSE MAY SPREAD PRODUCT FROM BROKEN CONTAINERS INCREASING CONTAMINATION OR FIRE HAZARD. AS IN ANY FIRE, PREVENT HUMAN EXPOSURE TO FIRE, SMOKE, FUMES OR PRODUCTS OF COMBUSTION. EVACUATE NONESSENTIAL PERSONNEL FROM THE AREA. FIRE FIGHTERS SHOULD WEAR FULLFACE, SELF CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING. USE STANDARD FIREFIGHTING TECHNIQUES.

Section V – Health Hazard Data

Threshold Limit Value: Epoxy resins contain trace amounts of epichlorohydrin which as a TLV of 2 ppm.

Health Hazards:

WARNING! MAY CAUSE IRRITATION. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING.. THE PRINCIPAL ROUTES OF ENTRY FOR THIS MATERIAL ARE INHALATION AND SKIN ABSORPTION. INHALATION OF THE VAPORS MAY PRODUCE RESPIRATORY FAILURE. INGESTION OF THE MATERIAL MAY PRODUCE ABDOMINAL PAIN AND DIARRHEA, DEPRESSION, CONVULSION, AND IN SERIOUS CASES, UNCONSCIOUSNESS. THIS PRODUCT IS A SKIN AND EYE IRRITANT. DERMATITIS MAY RESULT FROM PROLONGED OR REPEATED SKIN CONTACT.

Emergency & First Aid Procedures:

CALL A PHYSICIAN IMMEDIATELY. IF A KNOWN EXPOSURE OCCURS OR IS SUSPECTED, IMMEDIATELY INITIATED THE RECOMMENDED PROCEDURES BELOW.

INGESTION: IF SWALLOWED, IMMEDIATELY GIVE SEVERAL GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE

MORE FLUID. HAVE A PHYSICIAN DETERMINE IF CONDITION OF PATIENT WILL PERMIT EVACUATION OF STOMACH, OR INDUCTION OF VOMITING. DO NOT GIVE FLUID TO AN UNCONSCIOUS PERSON.

SKIN CONTACT: FLUSH ALL AFFECTED AREAS WITH WATER FOR 15 MINUTES. REMOVE ANY CONTAMINATED CLOTHING OR SHOES. SEEK MEDICAL ATTENTION IF SKIN IRRITATION OCCURS. WASH OR DISCARD CLOTHING.

EYE CONTACT: IMMEDIATELY FLUSH THE EYE WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ASSURE A THOROUGH FLUSHING. DO NOT ATTEMPT TO NEUTRALIZE ANY CHEMICAL. OBTAIN MEDICAL ASSISTANCE AS SOON AS POSSIBLE. FLUSH AN ADDITIONAL 15 MINUTES IF MEDICAL ATTENTION IS NOT AVAILABLE.

INHALATION: REMOVE FROM AREA. SEEK MEDICAL ATTENTION IF BREATHING IS DIFFICULT. OXYGEN MAY BE DELIVERED UPON A PHYSICIAN'S ADVICE. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH.

Toxicological Data: None Established

Section VI – Reactivity Data

Stability: Stable

Condition to Avoid: Excess heating over long periods of time will degrade resin. Hazardous polymerization may occur with excess of hardener. Contact with amines and oxidizing agents.

Incompatibility: Amines, strong bases

Hazardous Combustion or Decomposition Products: Carbon dioxide, Carbon monoxide.

Hazardous Polymerization: May occur

Section VII – Spill, Leak, and Waste Disposal Procedures

Waste disposal and Spill Control Methods

FOLLOW GOOD INDUSTRIAL HYGIENE PRACTICES. (SEE SEC. VIII). ANYONE ENTERING AN AREA WITH HIGH LEVELS OF VAPOR SHOULD USE A SELF CONTAINED AIR PACK. SMALL SPILLS CAN BE HANDLED IN A MORE ROUTINE MANNER. USE ADEQUATE VENTILATION AND WEAR A RESPIRATOR TO PREVENT INHALATION EXPOSURE. WEAR PROTECTIVE CLOTHING AND SPLASH GOGGLES. SOAK UP LIQUID WITH A SUITABLE ABSORBENT, SUCH AS SAWDUST, CLAY, OR OIL ABSORBER. SEEP UP ABSORBED MATERIAL AND PLACE IN A CHEMICAL WASTE DRUM FOR DISPOSAL. WASH UP AREA WITH DETERGENT AND WATER, FLUSH WITH WATER. LARGE SPILLS SHOULD BE DIKED AND PUMPED INTO A DRUM FOR SALVAGE OR DISPOSAL. MATERIAL THAT CANNOT BE USED SHOULD BE DISPOSED OR IN AN EPA AUTHORIZED FACILITY. DISPOSE OF EMPTY CONTAINERS ACCORDING TO ANY APPLICABLE REGULATIONS UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.

Section VIII – Special Protection Information

Respiratory Protection: IF USE CONDITIONS GENERATE VAPOR, THE MATERIAL SHOULD BE HANDLED IN AN OPEN OR WELL-VENTILATED AREA. WHERE ADEQUATE VENTILATION IS NOT AVAILABLE, USE NIOSH APPROVED ORGANIC VAPOR RESPIRATORS. WHERE EXPOSURE NECESSITATES A HIGHER LEVEL OF PROTECTION, A POSITIVE PRESSURE AIR SUPPLY RESPIRATOR IS RECOMMENDED.

Ventilation: General mechanical ventilation is recommended in a closed area.

Personal Protection: Protective apron or coveralls. Splash goggles, and approved plastic or rubber gloves is suggested.

Work Practices/Hygiene: Use good hygienic practice.

Section IX – Special Precautions

Handling and storage: Containers should be stored in a cool, dry, well ventilated area away from flammable materials and sources of heat or flame. Exercise caution to prevent damage to or leakage from the container.

Other Precautions: Non-corrosive to steel. Some plastics may swell under exposure to material.

Precautionary Labeling: None required.

Section X – Additional Information

N.A.

Section XI – Requirements of Transportation

Proper Ship Name:	Epoxy resin	Hazard Name:	NOT A HAZARDOUS MATERIAL
Hazard Class:	None	Label/Placard:	None Required
UN/NA #:	None	EPA RQ N:	.00 Pounds or .00 Kilos
Special Provisions:	None		

January 8, 2006