

MATERIAL SAFETY DATA SHEET

Advantage Construction Supply, Inc., 8500 Younger Creek Drive #100, Sacramento, CA 95828

Prepared by Dept. of Safety, Phone: 650/261-3790

24 Hour Emergency Phone: 800-424-9300 CHEMTREC

1. PRODUCT NAME:

ACS-50™ Semi Rigid Epoxy, Part A

Chemical Family: Epoxy resins, diluent.

2. HAZARDOUS INGREDIENTS

NAME	CAS No.	TLV	STEL	PEL	CONTENT
Epoxy resin	25068-38-6	none	none	none	58-68%
Epoxy resin	54208-63-8	none	none	none	6-11%
Aliphatic glycidyl ether	74398-71-3	none	none	none	8-12%
Dinonyl Phenol	1323-65-5	none	none	none	12-22%
Cresyl glycidyl ether	2210-79-9	none	none	none	2-6%

reference section 7, Health Hazard Data for LD (50)

3. PHYSICAL DATA:

Boiling Point:	>200 C	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	Slight	Solubility in Water:	Slight
Freezing Point	N/D	Specific Gravity:	1.14
Vapor Pressure@ 20C:	N/D	pH:	N/D
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Slight
Appearance	Black or blue-grey liquid		

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating:	1 - (Slight Hazard)
Flash Point:	>92 C (200 F) PMCC
Auto Ignition Temperature:	N/D
Limits of Flammability:	LEL: N/D UEL: N/D
EXTINGUISHING MEDIA:	CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG
SPECIAL FIRE & UNUSUAL HAZARDS:	At higher temperature vapors can cause pressure build-up in sealed containers. Use water to cool containers exposed to fire. Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding not recommended.

5. REACTIVITY DATA:

HMIS Reactivity Rating:	1 - (Slight Hazard)
STABILITY:	This product requires another component to react at room temperature. Mix and use product in accordance with directions for safety. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.
INCOMPATIBILITY:	Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide and dioxide, aldehydes, various compounds from incomplete combustion.
HAZARDOUS POLYMERIZATION:	May occur is product is not handled per instructions.

6. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS AND LEAKS:	Ventilate area, eliminate all sources of ignition. Wear appropriate protective gear. Contain leak/spill. Salvage. Clean up residue with absorbent material.
WASTE DISPOSAL METHOD:	Handle disposal of waste material in manner which complies with local, state, province, and federal regulations. Landfill if solidified or incinerate at agency approved waste-disposal facility.

7. HEALTH HAZARD DATA:

HMIS Health Rating:	2 - (Moderate Hazard)
Primary Route Of Entry:	Dermal
Effects of Overexposure:	
Skin Contact:	Prolonged or repeated exposure may cause skin irritation and redness. Skin sensitization or allergic reaction may occur in some individuals.
Eyes:	Contact may cause irritation, redness, tearing and blurred vision.
Inhalation:	Vapors may cause severe irritation to nose, and mucous membranes.
Ingestion:	Intake can cause gastro-intestinal irritation, nausea, vomiting and diarrhea. LD (50) CAS 25068-38-6 11.4 g/kg (rat) LD (50) CAS 2210-79-9 11.4 g/kg (rat) LD (50) CAS 54208-63-8 11.4 g/kg (rat)
Chronic:	None known.

8. FIRST AID:

Inhalation:	Remove victim from exposure. If difficulty with breathing; administer oxygen and seek immediate medical assistance.
Eyes:	Flush with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
Skin:	Wash with soap and water; get medical attention if irritation persists.
Ingestion:	Do not induce vomiting, give at least two glasses of water; get immediate medical attention. If vomiting occur spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Do not give anything by mouth to an unconscious person.

9. SPECIAL PROTECTION INFORMATION:

HMIS Personal Protection Rating: C (Safety Glasses, Gloves, Apron)	
Ventilation	Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to prevent build-up of heavy vapors.
Personal Protection:	Use eye protection. Selection of specific items such as gloves, boots and apron will depend on the operation.

10. ADDITIONAL INFORMATION:

DOT Proper Shipping Name:	Epoxy resin mixture
DOT Hazard Class or Division:	Not regulated
Identification Number:	N/A
Packing Group:	N/A
Labels Required:	N/A
California Prop. 65:	N/A
WHMIS Classification:	Class D, Div. II, Sub. B
Storage Conditions:	Keep containers tightly sealed. Store in dry and cool areas. Avoid freezing conditions.
Shelf life:	Indefinite.
Special Instructions:	Storage recommendations: Store at room temperature. Do not allow to freeze.

The information given herein is given in good faith. No warranty, expressed or implied, is made regarding the accuracy of these data or the results obtained from the use thereof. All materials may present unknown health hazards and must be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Consult Advantage Construction Supply Inc. for further information. **MSDS114A 02/02**

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Prepared by Dept. of Safety, Phone: 650/261-3790

24 Hour Emergency Phone: 800/424-9300 CHEMTREC

1. PRODUCT NAME:

ACS-50™ Semi Rigid Epoxy, Part B

Chemical Family: Polyamines

2. HAZARDOUS INGREDIENTS

NAME	CAS No.	TLV	STEL	PEL	CONTENT
Dinonyl Phenol (DNP)	1323-65-5	none	none	none	72-78%
Amino Ethyl Piperazine (AEP)	140-31-8	none	none	none	20-30%
Diethylenetriamine (DETA)	111-40-0	1ppm	none	1ppm	1-2%

reference section 7, Health Hazard Data for LD (50)

3. PHYSICAL DATA:

Boiling Point:	316 C (DNP)	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	negligible	Solubility in Water:	30%
Freezing Point	N/D	Specific Gravity:	0.95
Vapor Pressure @ 20C:	N/D	pH:	alkaline
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Ammoniacal
Appearance	Amber liquid		

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating:	1 - (Slight Hazard)
Flash Point:	99 C (210 F) PMCC
Auto Ignition Temperature:	N/D
Limits of Flammability:	LEL: 1.8% @ 140 C UEL: N/D
EXTINGUISHING MEDIA:	CARBON DIOXIDE, FOAM, DRY CHEMICAL & WATER FOG
SPECIAL FIRE & UNUSUAL HAZARDS:	Self-contained respirator equipment and full protective clothing are required when smoke and fumes are generated. Electrical grounding is not recommended.

5. REACTIVITY DATA:

HMIS Reactivity Rating:	1 - (Slight Hazard)
STABILITY:	Stable. This product must be mixed with another component to react. Mix and use in accordance with directions for safety. Not sensitive to mechanical impact.
INCOMPATIBILITY:	Strong oxidizing agents, acids, epoxy resins, isocyanates and organic peroxides may result in violent explosive reactions.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide and dioxide, nitrogen oxides, aldehydes and various hydrocarbons from incomplete combustion.
HAZARDOUS POLYMERIZATION:	Will not occur.

6. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS AND LEAKS:	Ventilate area. Wear appropriate protective gear. Contain leak/spill. Clean up residue with absorbent material. Wash down area with water and diluted acetic acid.
WASTE DISPOSAL METHOD:	Handle disposal of waste material in manner which complies with local, state, province, and federal regulations. Landfill if solidified or incinerate at agency approved waste-disposal facility.

7. HEALTH HAZARD DATA:

HMIS Health Rating:	2 - (Moderate Hazard)
Primary Route Of Entry:	Dermal, eyes, ingestion.
Effects of Overexposure:	
Inhalation:	Low degree of volatility. At higher temperatures it is possible for vapors to be generated; the vapors are very disagreeable. This material may result in irritation of throat, lungs, and allergic type reaction or sensitization in some individuals.
Eyes:	Contact can cause severe burns. At higher temperatures vapors can cause severe, irritation, redness, tearing or blurred vision. Corneal injury is possible.
Skin Contact:	Short single exposure may cause moderate irritation to mild burn. Prolonged or repeated exposure may cause a severe burn. May result in an allergic reaction or sensitization response in some individuals.
Skin Absorption:	(AEP) and (DETA) may be absorbed through skin in moderately toxic amounts. LD (50) CAS 140-31-8 880 mg/kg (rabbit) LD (50) CAS 111-40-0 880 mg/kg (rabbit)
Ingestion:	Intake can cause gastro-intestinal irritation, nausea, vomiting, diarrhea, headache and drowsiness. Can result in burns of mouth esophagus and stomach. LD 50 CAS 140-31-8 2140 mg/kg (rat) LD 50 CAS 87-72-5 340 mg/kg (rat)
Chronic:	None known.

8: FIRST AID:

Eyes:	Flush eyes with water and/or 1% boric acid, lifting upper and lower lids occasionally for 30 minutes. Seek prompt medical attention.
Skin:	Wash with soap and water for at least 15 minutes. Remove contaminated clothing and wash before re-use. Destroy contaminated leather. Seek medical attention if irritation persists.
Ingestion:	Do not induce vomiting. Give large quantities of water or vinegar diluted with water. Get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person.
Inhalation:	Remove victim from exposure. If difficulty with breathing; administer oxygen and seek immediate medical assistance.

9. SPECIAL PROTECTION INFORMATION:

HMIS Personal Protection Rating: C (Safety Glasses, Gloves, Apron)	
Ventilation :	Ventilation at normal room temperature is a means of controlling vapor properly. If material is above 140 F, a positive pressure breathing apparatus is recommended.
Personal Protection:	Use chemical goggles. Selection of specific items such as gloves, boots and apron will depend on the operation. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard. Confined spaces, rooms or tanks are areas where concern for TLV's is especially important. Reference CFR 29 1910.134 for recommended respiratory protection.

10. ADDITIONAL INFORMATION:

DOT Proper Shipping Name:	N-Aminoethylpiperazine mixture
DOT Hazard Class or Division:	8
Identification Number:	UN 2815
Packing group:	III
Labels Required:	CORROSIVE
WHMIS Classification:	Class D, Div, 2, Sub. A; Class E.
WHMIS Labeling:	Test tube, hand., Stylized T
Shelf life:	Indefinite.
Special Instructions :	Keep containers tightly sealed. Store in dry and cool area. Avoid freezing conditions.

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MSDS114B 02/02

