

SERIAL SAFETY DATA SHEET
 be used to comply with
 A's Hazard Communication Standard,
 CFR 1910.1200. Standard must be
 sulted for specific requirements.

AD*TECH PLASTIC SYSTEMS CORP.
 815 SHEPHERD ST.-P.O. BOX 437
 CHARLOTTE, MICHIGAN 48813
 (517)-543-7510
 (517)-543-6787 FAX #
 Date Prepared: 7-1-90

***** SECTION I PRODUCT IDENTIFICATION *****

NAME: EC-423-1HARDENER DOT HAZARD CLASSIFICATION: N/AP FLAMMABLE
 ERIC NAME: EPOXY HARDENER *URETHANE* UN NUMBER: 1760
 ***CORROSIVE

***** SECTION II INGREDIENTS/IDENTITY INFORMATION *****

COMPONENTS	OSHA PEL	ACGIH PEL
ethylene diamine	NE	NE
phenol A Based Epoxy Resin	NE	NE
phatic Amine	NE	NE
ethylimidazole	NE	NE
methylhexamethylene Diamine	NE	NE

**FOR CHEMICAL EMERGENCY
 DURING TRANSPORTATION ONLY**
 Call INFOTRAC
1-800-535-5053
 24 Hrs. per day, 7 days per week

***** SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS *****

BOILING POINT: ND SPECIFIC GRAVITY (H₂O = 1): 1.06
 VAPOR PRESSURE: ND MELTING POINT: N/AP
 VAPOR DENSITY: ND EVAPORATION RATE (Butyl Acetate = 1): N/AP
 SOLUBILITY IN WATER: Slight
 APPEARANCE AND ODOR: Amber liquid w/ mild odor.

***** SECTION IV FIRE AND EXPLOSION HAZARD DATA *****

FLASH POINT: >200 DEG F TEST METHOD: PMCC
 RECOMMENDED EXTINGUISHING MEDIA: ***Water Spray ***Foam ***Carbon Dioxide
 ***Dry Chemical Other
 SPECIAL FIRE FIGHTING PROCEDURES: ***Avoid Eye and Skin Contact None Known
 ***Do Not Breathe Fumes Other
 USUAL FIRE AND EXPLOSION HAZARDS: ***None Known Other

***** SECTION V REACTIVITY DATA *****

STABILITY: Unstable ***Stable CONDITIONS TO AVOID: Uncontrolled reactions
 with epoxies.
 COMPATIBILITY (Materials to Avoid): Water ***Acids Bases ***Oxidizers
 Reducers Amines ***Epoxies
 Peroxides Other
 DANGEROUS DECOMPOSITION PRODUCTS: Oxides of Nitrogen and Carbon formed upon
 heating or burning.
 DANGEROUS POLYMERIZATION: May Occur ***Will Not Occur
 CONDITIONS TO AVOID:

***** ABBREVIATIONS *****

AP= not applicable NE= not established
 AV= not available ND= not determined

***** SECTION VI HEALTH HAZARD DATA *****

ROUTE OF ENTRY : RESULTS OF OVEREXPOSURE : FIRST AID PROCEDURES
 ----- : ----- : -----
 EYE CONTACT : No Effect Irritation : IMMEDIATELY FLUSH W/ WATER
 ----- : Severe Irritation Corrosive : FOR @ LEAST 15 MIN. CALL A
 : Other : PHYSICIAN
 :
 SKIN CONTACT : No Effect Defacement : WASH W/ MILD SOAP AND WATER
 ----- : Irritation ****Corrosive** :
 : ****Potential Sensitizer** Other :
 :
 INHALATION : No Effect : MOVE TO FRESH AIR. IF
 ----- : Irritation To Upper : SYMPTOMS PERSIST CONSULT A
 : Other : PHYSICIAN
 :
 INGESTION : No Effect : NEVER GIVE FLUIDS TO AN
 ----- : ****May Cause Irritation** : UNCONSCIOUS PERSON. IF
 : Other : CONSCIOUS GIVE SEVERAL
 : : GLASSES OF MILK OR WATER.
 : : INDUCE VOMITING
 : : ****DO NOT INDUCE VOMITING**
 : : CONTACT PHYSICIAN

ARCINOGENICITY: NTP: NE IARC: OSHA: NE

***** SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE *****

STEPS TO TAKE IF SPILLED: SOAK UP IN ABSORBANT MATERIAL OR SCRAPE UP.
 ----- Rinse w/ non-flammable solvent such as MeOH followed by a water rinse ****Scrub w/ 5% acetic acid to emulsify and rinse w/ hot water**
 : Other
 WASTE DISPOSAL METHOD: BURN IN ADEQUATE INCINERATOR OR BURY IN LANDFILL IN
 ----- ACCORDANCE W/ ALL FEDERAL, STATE, AND LOCAL REGULATIONS

PRECAUTIONS TO BE TAKEN IN: STORE AT AMBIENT TEMPERATURES IN A WELL VENTILATED
 HANDLING AND STORING : AREA AWAY FROM EXCESSIVE HEAT AND OPEN FLAMES.

OTHER PRECAUTIONS: ****None Known** Other

***** SECTION VIII CONTROL MEASURES *****

RESPIRATORY PROTECTION: None normally needed ****Recommended** NIOSH Approved

 VENTILATION: Local Exhaust Adequate ****Mechanical Exhaust Recommended**

 GLOVES: ****Polyethylene** ****Rubber** Other

 EYE PROTECTION: Safety Glasses w/ Side Shields ****Goggles**

 OTHER PROTECTIVE CLOTHING OR EQUIPMENT: CLEAN OUTER BODY COVERING.

WORK/HYGIENIC PRACTICES: PRACTICE GOOD HYGIENE AND USE W/ CAUTION TO AVOID SKIN
 ----- AND EYE CONTACT.

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's Hazard Communication Standard,
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***** SECTION I PRODUCT IDENTIFICATION *****

ENAME: EC-423 HARDENER DOT HAZAR CLASSIFICATION: N/AP FLAMMABL
2 - MEDIUM ***CORROSIVE
RIC NAME: EPOXY HARDENER UN NUMBER 1150

***** SECTION II INGREDIENTS/IDENTITY INFORMATION *****

INGREDIENTS	OSHA	ACGIH PEL
lenediamine	NE	NE
henol A Based Epoxy Resin	NE	NE
horonedamine	NE	NE
thylimidazole	NE	NE
ethylhexamethylene Diamine	NE	NE

***** SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS *****

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***** SECTION IV FIRE AND EXPLOSION HAZARD DATA *****

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MMENDED EXTINGUISHING MEDIA: ***Water Spray ***Foam ***Carbon Dioxide
***Dry Chemical Other
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***Do Not Breathe Fumes Other
UAL FIRE AND EXPLOSION HAZARDS: ***None Known Other

***** SECTION V REACTIVITY DATA *****

ILITY: Unstable ***Stable CONDITIONS TO AVOID: Uncontrolled reactions
with epoxies.
MPATIBILITY (Materials to Avoid): Water ***Acids Bases ***Oxidizer
 Reducers Amines ***Epoxies
 Peroxides Other
ARDOUS DECOMPOSITION PRODUCTS: Oxides of Nitrogen and Carbon formed upon
heating or burning.
ARDOUS POLYMERIZATION: May Occur ***Will Not Occur
CONDITIONS TO AVOID:

***** ABBREVIATIONS *****

P= not applicable NE= not established
V= not available ND= not determined

***** SECTION VI HEALTH HAZARD DATA *****

TYPE OF ENTRY	RESULTS OF OVEREXPOSURE	FIRST AID PROCEDURES
-----	-----	-----
CONTACT	: <u>No Effect</u> <u>Irritation</u>	: IMMEDIATELY FLUSH W/ WATER
-----	: <u>Severe Irritation</u> **Corrosive	: FOR @ LEAST 15 MIN. CALL A
	: <u>Other</u>	: PHYSICIAN
CONTACT	: <u>No Effect</u> <u>Defatting</u>	: WASH W/ MILD SOAP AND WATER
-----	: <u>Irritation</u> **Corrosive	
	: **Potential Sensitizer <u>Other</u>	
INHALATION	: <u>No Effect</u>	: MOVE TO FRESH AIR. IF
-----	: **May Cause Irritation To Upper	: SYMPTOMS PERSIST CONSULT A
	: Respiratory Tract	: PHYSICIAN
	: <u>Other</u>	
INGESTION	: <u>No Effect</u>	: NEVER GIVE FLUIDS TO AN
-----	: **May Cause Irritation	: UNCONSCIOUS PERSON. IF
	: <u>Other</u>	: CONSCIOUS GIVE SEVERAL
		: GLASSES OF MILK OR WATER.
		: <u>INDUCE VOMITING</u>
		: **DO NOT INDUCE VOMITING
		: CONTACT PHYSICIAN

CARCINOGENICITY: NTP: NE IARC: NE OSHA: NE

***** SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE *****

STEPS TO TAKE IF SPILLED: SOAK UP IN ABSORBANT MATERIAL OR SCRAPE UP.

-----	<u>Rinse w/ non-flammable solvent such as MeCl2 followed by a water rinse</u>	**Scrub w/ 5% acetic acid to emulsify and rinse w/ hot water
	<u>Other</u>	

APPROPRIATE DISPOSAL METHOD: BURN IN ADEQUATE INCINERATOR OR BURY IN LANDFILL IN ACCORDANCE W/ ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

ADDITIONAL PRECAUTIONS TO BE TAKEN IN: STORE AT AMBIENT TEMPERATURES IN A WELL VENTILLATED HANDLING AND STORING AREA AWAY FROM EXCESSIVE HEAT AND OPEN FLAMES.

ADDITIONAL PRECAUTIONS: ****None Known** Other

***** SECTION VIII CONTROL MEASURES *****

RESPIRATORY PROTECTION: None normally needed ****Recommended: NIOSH Approved:**

VENTILATION: Local Exhaust Adequate ****Mechanical Exhaust Recommended:**

GLASSES: ****Polyethylene** ****Rubber** Other

FACE PROTECTION: Safety Glasses w/ Side Shields ****Goggles**

ADDITIONAL PROTECTIVE CLOTHING OR EQUIPMENT: CLEAN OUTER BODY COVERING.

ADDITIONAL HYGIENIC PRACTICES: PRACTICE GOOD HYGIENE AND USE W/ CAUTION TO AVOID SKIN AND EYE CONTACT.

***** SECTION VI HEALTH HAZARD DATA *****

TYPE OF ENTRY	RESULTS OF OVEREXPOSURE	FIRST AID PROCEDURES
CONTACT	: <u>No Effect</u> <u>Irritation</u> : <u>Severe Irritation</u> **Corrosive : <u>Other</u>	: IMMEDIATELY FLUSH W/ WATER : FOR @ LEAST 15 MIN. CALL A : PHYSICIAN
SKIN CONTACT	: <u>No Effect</u> <u>Defatting</u> : <u>Irritation</u> **Corrosive : **Potential Sensitizer <u>Other</u>	: WASH W/ MILD SOAP AND WATER
INHALATION	: <u>No Effect</u> : **May Cause Irritation To Upper : Respiratory Tract : <u>Other</u>	: MOVE TO FRESH AIR. IF : SYMPTOMS PERSIST CONSULT A : PHYSICIAN
INGESTION	: <u>No Effect</u> : **May Cause Irritation : <u>Other</u>	: NEVER GIVE FLUIDS TO AN : UNCONSCIOUS PERSON. IF : CONSCIOUS GIVE SEVERAL : GLASSES OF MILK OR WATER. : <u>INDUCE VOMITING</u> : **DO NOT INDUCE VOMITING : CONTACT PHYSICIAN

CARCINOGENICITY: NTP: NE IARC: NE OSHA: NE

***** SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE *****

STEPS TO TAKE IF SPILLED: SOAK UP IN ABSORBANT MATERIAL OR SCRAPE UP.

_____ Rinse w/ non-flammable solvent such as MeCl₂ followed by a water rinse

_____ Other

***Scrub w/ 5% acetic acid to emulsify and rinse w/ hot water

BEST DISPOSAL METHOD: BURN IN ADEQUATE INCINERATOR OR BURY IN LANDFILL IN ACCORDANCE W/ ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN: STORE AT AMBIENT TEMPERATURES IN A WELL VENTILLATED HANDLING AND STORING : AREA AWAY FROM EXCESSIVE HEAT AND OPEN FLAMES.

OTHER PRECAUTIONS: **None Known Other

***** SECTION VIII CONTROL MEASURES *****

RESPIRATORY PROTECTION: None normally needed **Recommended NIOSH Approved

VENTILATION: Local Exhaust Adequate **Mechanical Exhaust Recommended

GLOVES: **Polyethylene **Rubber Other

EYE PROTECTION: Safety Glasses w/ Side Shields **Goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: CLEAN OUTER BODY COVERING.

WORK/HYGIENIC PRACTICES: PRACTICE GOOD HYGIENE AND USE W/ CAUTION TO AVOID SKIN AND EYE CONTACT.