


SDS#126 Revision: 5/9/16

1. Product Identification

Product name	Fast Set Epoxy Hardener	
Product Number	AM1168/AM1170	
Product type	Curing Agent	
Manufacturer/Supplier information		
Company name	Alpha Resources Inc.	
Address	3090 Johnson Rd. Stevensville, MI 49127 United States	
Telephone	1-269-465-5559	
Website	www.alpharesources.com	
Emergency Contact	CHEMTREC (U.S.) CHEMTREC (Outside the U.S.)	1-800-424-9300 1-703-527-0585

2. Hazard(s) Identification

Classification of substance or mixture/Signal Word	DANGER	
<u>GHS Label Elements</u> Hazard Pictograms		
Hazard Statements/Classification of substance or mixture	H302	Harmful if swallowed
	H314	Corrosive to skin
	H317	May cause sensitization by skin contact.
	H318	Causes serious eye damage
	H334	May cause allergy or asthma symptoms or breathing difficulties
	H373	May cause damage to organs through repeated or prolonged exposure
<u>Precautionary Statements</u> Prevention	P280	Wear protective gloves. Wear eye or face protection.
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
Response	P301 + P312	If swallowed, call a poison control center; get medical attention
Storage	P405	Store locked up.
Disposal	P501	Dispose of contents and container in accordance with all local, regional, national and international regulations.

3. Composition/Information On Ingredients

Chemical Name	CAS Number	Content (%)
Nonyl Phenol	84852-15-3	50-60%
Aliphatic Amine Mixture	Trade Secret	40-50%

4. First-Aid Measures

Skin contact	Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.
Eye contact	Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical attention. If medical care is not promptly available, continue to irrigate for one hour.
Ingestion	Get medical attention. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side
Inhalation	Get medical attention. Move to fresh air. Supplemental oxygen may be indicated.

5. Fire-Fighting Measures

Suitable extinguishing media	Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical Dry sand or limestone powder
Specific hazards arising from the chemical	May generate ammonia and nitrogen oxide gases. Use of water may form very toxic solutions. Incomplete combustion may form carbon monoxide.
Special protective equipment and precautions for fire-fighters	
Fire-fighting equipment/instructions	Avoid contact with skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental Release Measures

Personal precautions	Wear proper protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	Use appropriate containment to avoid environmental contamination. Do not allow spill to enter into sewers or waterways. Construct a dike to prevent spreading.
Methods and materials for containment/cleanup	Stop spill at source, dike area to prevent spreading, place in proper waste container. Contact Chemtrec for further instruction. Approach suspected leak areas with caution.
Environmental precautions	Use appropriate containment to avoid environmental contamination. Do not allow spill to enter into sewers or waterways.

Small Spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large Spill	Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7. Handling And Storage

Precautions for safe handling	Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.
Precautions/Recommendations for safe/proper storage	Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.

8. Exposure Controls/Personal Protection

Engineering controls	Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.
Individual protection measures/Personal protective equipment	
Eye/face protection	Chemical-resistant goggles must be worn.
Hand protection	Butyl-rubber, Nitrile rubber, Neoprene Gloves, PVC disposable gloves, Impervious gloves.
Skin protection	Long sleeve shirts and trousers without cuffs
Special instructions for protection and hygiene	Discard contaminated leather articles. Remove contaminated clothing. Wash at the end of each work shift and before eating smoking or using the Restroom. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls not	Use appropriate containment to avoid environmental contamination. Do not allow spill to enter sewers or waterways.

9. Physical And Chemical Properties

Chemical family	Amine Curing Agent
Appearance	Liquid
Physical State	
Form	Liquid
Color	Slightly Yellow
Odor	Ammoniacal
Relative density	0.94

Viscosity	240-260 cps at 77 °F (25 °C)
pH	Alkaline
Initial boiling point and boiling range	399°F(204°C)
Flash point	230°F(110°C)
Vapor pressure	< 1 mm Hg @ 70°F (21°C)
Solubility in Water	< 0.1 g/l

10.Stability And Reactivity

Chemical Stability	Stable under normal conditions.
Incompatible materials	Organic acids (i.e. acetic acid, citric acid, etc.). Mineral acids. Sodium hypochlorite. Oxidizing agents.
Hazardous decomposition products	Nitric acid Ammonia Aldehydes Nitrogen oxides (NO _x) Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide. Carbon dioxide (CO ₂).

11. Toxicological Information

Information on toxicological effects

Acute Toxicity	LD50 Oral: >1000mg/kg LD50: 866 mg/kg	Rat Rabbit
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Components		
Inhalation (Aliphatic Amine)	LC50: 4.9 mg/l	Rat

Chronic toxicity

Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas; neurological disorders, liver disorders, kidney disorders, asthma, skin disorders, allergies, and eye disease.

There is no comprehensive data showing potential carcinogenicity by OSHA, NTP, or IARC.

12. Ecological Information

Ecotoxicity	Test	Endpoint	Exposure	Species	Result
Aquatic toxicity	No data on the product itself				
Component (Nonyl Phenol)	ASTM	Acute EC50	96hr Static	Fish	0.05 Mg/L
Component (Aliphatic Amine)	No data on the mixture itself				
Persistence and degradability	No data on product itself.				
Bioaccumulative Potential					
Component (Nonyl Phenol)	High				
Component (Aliphatic Amine)	No data on the mixture itself				
Mobility in Soil	No data on the product itself				

13. Disposal Considerations

Waste from residues/ unused products	Product should not be allowed to enter drains, water courses or the soil; dispose of this material and its containers in a safe way. Contact supplier if guidance is required.
Contaminated packaging	Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

DOT	UN# UN2735	Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (n-aminoethylpiperazine)
	Class: 8	Packing Group: II Marine Pollutant: Yes
IATA	UN# UN2735	Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (n-aminoethylpiperazine)
	Class: 8	Packing Group: II Marine Pollutant: Yes
IMDG	UN# UN2735	Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (n-aminoethylpiperazine)
	Class: 8	Packing Group: II Marine Pollutant: Yes
TDG	UN# UN2735	Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (n-aminoethylpiperazine)
	Class: 8	Packing Group: II Marine Pollutant:

15. Regulatory Information

UNITED STATES

Toxic Substance Control Act (TSCA) 12(b) – Components: None.

OSHA Hazard Communication Standard (29 CFR 1910.1 200) Hazard Classes: Corrosive. Sensitizer.

California Prop. 65: This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other harm.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification: Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above ‘de minimus’ level: Phenol 1-5% CAS 108-95-2

WHMIS Hazard Classification: Class E Corrosive Material.

INTERNATIONAL REGULATIONS

International Lists

USA inventory (TSCA 8b): Included on inventory

EU (EINECS): Included on EINECS inventory or polymer substance, monomers

Australia inventory (AICS): Included on inventory

Canada inventory (DSL): Included on

inventory **Japan inventory (ENCS):**

Included on inventory **China inventory**

(IECSC): Included on inventory **South**

Korea inventory (ECL): Included on

inventory

16. Other Information, Including Date Of Preparation Or Last Revision

The information contained herein is based on the data available to us and is believed to be correct. However, Alpha Resources Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.