



ABATRON, INC.

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Material Safety Data Sheet

SECTION 1: PRODUCT IDENTIFICATION

Product Name: ABOCAST 4-4
Product Code: 4-4 A

EFFECTIVE DATE: 9/30/2011
Type: Casting Compound

SECTION 2: HAZARDOUS INGREDIENTS

Trade Secret: Proprietary Epoxy Prepolymers

SECTION 3: PHYSICAL DATA

Boiling Point: N/A
Vapor Press: N/A
Vapor Density (Air=1): N/A
Appearance And Odor: Grey very viscous liquid. Almost no odor.

Sol. In Water: None
Sp. Gravity: 1.6-1.7
% Volatile By Vol.: <0.1
PH: Not Available

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >450° F
Method Used: ASTM D 93

Flammable Limits (STP In Air)
TOC LFL: Not deter. **UFL:** Not deter.

Extinguishing Media: Foam, CO₂, dry chemical, any agent suitable to the surrounding fire.

Special Fire Fighting Equipment: Appropriate protective equipment and self-contained breathing apparatus with a full face piece.

Further Information: In a fire or if heated, a pressure increase will occur and container may burst.

SECTION 5: HEALTH HAZARD DATA

Emergency Overview

Causes eye and skin irritation. May cause allergic skin reaction. May cause respiratory tract irritation. Heated material can cause thermal burns.

Potential Health Effects

Ingestion: Low oral ingestion hazard - not expected to be harmful under normal conditions of use.

Eye Contact: Minor irritation. No corneal injury likely.

Skin Contact: Only minor irritation. May be a skin sensitizer. Heated material can cause thermal burns.

Skin Absorption: Not likely to be absorbed in toxic amounts.

Inhalation: Slightly irritating to the respiratory system.

Effect Of Overexposure: May cause skin sensitization or redness. Pain and irritation, along with watering and redness of the eyes can occur. Large amounts of inhalation can cause respiratory tract irritation and coughing.

First Aid Procedures

Eyes: Irrigate with flowing water immediately for 15 minutes, occasionally lifting upper and lower eyelids. Remove contacts.

Skin: Contact will probably cause no more than irritation. Flush skin with water or soap water for at least 10 minutes. If product is hot, wash with cold water to dissipate heat and cover area with clean cotton sheeting or gauze. Remove all contaminated clothing or shoes. Wash clothing before reuse.

Inhalation: Move exposed person to fresh air. If breathing is irregular, provide artificial respiration or oxygen only by trained personnel. If unconscious, place in recovery position and get medical attention. Maintain open airway and loosen tight clothing such as a collar or tie.

Ingestion: Low in toxicity. Wash out mouth with water and move exposed person to fresh air. If person is conscious, give small quantities of water to drink. Stop if vomiting may occur. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep the head low. If unconscious, place in recovery position. Maintain an open airway and loosen tight clothing.

Note to Physician

Eyes: Injury is unlikely. Stain for evidence of corneal injury. Consult ophthalmologist.

Skin: May cause moderate irritation. Treat as any contact dermatitis. Known or suspected weak sensitizer. Not likely to be absorbed in acutely toxic amounts.

Respiratory: Injury is unlikely.

Oral: Low in toxicity.

Systemic: Human effects not established. No specific antidote. Treatment based on the sound judgment of the physician and the individual reaction of the patient. Contact poison treatment specialists if large quantities have been ingested or inhaled.

SECTION 6: REACTIVITY DATA

Stability: Stable under normal conditions. Prolonged excessive heat may cause partial degradation.

Materials to Avoid: Strong Oxidizers. Strong acids and bases.

Hazardous Decomposition Products: Carbon oxides. Reacts with considerable heat release with some curing agents.

Hazardous Polymerization: Will not occur by itself, but masses of more than 3-5 lbs of product, plus an aliphatic amine, may cause irreversible reaction with considerable heat buildup.

SECTION 7: SPILL, LEAK AND DISPOSAL PROCEDURES

Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection. Do not touch or walk through spilled material and avoid breathing vapor or mist. Provide adequate ventilation if spill is in a closed area. Wear appropriate respirator when ventilation is inadequate.

Methods for Clean-up: Approach spill with caution. Stop leak if without risk and move container from spill area. Prevent entry into sewers or water courses. Inform the relevant authorities if the product has caused environmental pollution. For molten material, allow product to cool before handling. Vacuum or sweep up material and place in a designated, labeled waste container. Soak up any absorbent material and place in the designated waste container.

Disposal Method: Dispose of waste and surplus via a licensed waste disposal contractor. Contaminated absorbent material should be treated with the same discretion. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation.

SECTION 8: SPECIAL HANDLING INFORMATION**Personal Protective Equipment**

Respiratory Protection: Product should only be used in areas with adequate ventilation. If ventilation is inadequate, use a properly fitted air-purifying or air-fed respirator.

Skin: Clean, body-covering clothing. Disposable plastic or rubber gloves. Disposable containers and paper in work area. Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Eye Protection: Safety glasses without side shields. Eyewear should be suitable to the level of risk of exposure. Avoid exposure to liquid splashes.

SECTION 9: SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Precautions To Be Taken In Handling And Storage: None except normal handling care. Practice good caution and personal cleanliness to avoid eye and skin contact. Avoid breathing vapors if generated. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands immediately after use. Persons with a history of skin sensitization should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container and keep container tightly closed when not in use. Do not reuse containers.

SECTION 10: TRANSPORTATION INFORMATION

Non-regulated.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE.



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Material Safety Data Sheet

SECTION 1: PRODUCT IDENTIFICATION

Product Name: ABOCURE 4-4
Product Code: 4-4B
Type: Proprietary

Date Prepared: 8/19/2011
Product Description: Curing Agent, Epoxy

SECTION 2: HAZARDOUS INGREDIENTS

Tetraethylenepentamine, in significant quantities. The exact percentage is considered proprietary information

SECTION 3: PHYSICAL DATA

Boiling Point: >392° F (>200° C)
Vapor Press (mm Hg @ 70° F (21° C)): <20.68
Vapor Density (Air=1): No Data
Appearance and Odor: Amber liquid. Ammonia odor.

Sol. In Water: Slight
Sp. Gravity: 0.95
% Volatile By Vol.: <1
PH: Alkaline

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (closed cup): 383° F (195° C)

Flammable Limits (STP In Air)
LFL: Not Deter. **UFL:** Not Deter.

Extinguishing Media

In Case Of A Large Fire: Use water spray, alcohol foam.

In Case Of A Small Fire: Use carbon dioxide (CO₂), dry chemical, dry sand or limestone.

Specific Hazards: High temperatures and incomplete combustion may release ammonia gas, oxides of nitrogen, and carbon monoxide. Downwind personnel must be evacuated.

Special Protective Equipment for Fire Fighters: A face shield should be worn. Use personal protective equipment and wear a self-contained breathing apparatus if necessary.

Further Information: Retain expended liquids from fire fighting for later disposal. Do not allow run-off to enter drains or water courses. All contaminated material must be disposed of in accordance with local regulations.

SECTION 5: HEALTH HAZARD DATA

Emergency Overview

Corrosive

Severe eye irritant

Severe respiratory irritant

Severe skin irritant

May cause sensitization by skin contact

Potential Health Effects

Inhalation: Harmful if inhaled and may cause delayed lung injury. Can cause severe eye, skin and respiratory tract burns. Risk of serious damage to the lungs (by inhalation). May cause nose, throat, and lung irritation. Inhalation of aerosols or vapors may cause irritation to the respiratory system.

Eye Contact: Causes eye burns. May cause blindness. Severe eye irritation.

Skin Contact: Causes skin burns.

Ingestion: If ingested, severe burns of the mouth and throat, as well as danger of perforation of the esophagus and the stomach.

Chronic: Prolonged or repeated exposure may cause asthma, skin sensitization or other allergic responses.

Emergencies And First Aid Procedures

Eye Contact: Hold eyelids apart and immediately flush eyes gently for at least 15 minutes. Seek medical care promptly. If medical care is not immediately available, continue to rinse for one hour.

Skin Contact: Remove contaminated clothing and immediately flush affected area with water for at least 15 minutes. Rinse off any extraneous chemical immediately. If the patient does not receive immediate medical care, continue flushing with water for one hour. Cover wound with sterile dressing. Do not apply greases or ointments. Launder contaminated clothing prior to reuse.

Inhalation: Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Prevent aspiration of vomit. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Ingestion: Do not induce vomiting without medical advice. If a person vomits when lying on his or her back, place him in the recovery position.

In all cases, seek medical advice as quickly as possible.

SECTION 6: REACTIVITY DATA

Stability: Stable under normal conditions.

Materials to Avoid: N-Nitrosoamines, nitrites, nitrous acid and other nitrosating agents, organic acids, mineral acids, sodium hypochlorite, oxidizing agents, peroxides. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Hazardous Decomposition Products: Nitric acid, ammonia, nitrogen oxides, carbon monoxide, carbon dioxide, nitrosamine.

Hazardous Polymerization: None known.

SECTION 7: SPILL, LEAK AND DISPOSAL PROCEDURES

Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel.

Methods for Clean-up: Immediately open enclosed spaces to outside atmosphere. If possible, stop flow of product. Approach spills with caution. Soak in absorbent material or scrape up and place material in appropriate chemical waste container.

Disposal Method: Dispose of as hazardous waste according to federal, state and local regulations.

SECTION 8: SPECIAL HANDLING INFORMATION

Personal Protective Equipment

Respiratory Protection: Wear appropriate respirator when ventilation is inadequate.

Hand Protection: Butyl-rubber, nitrile rubber, neoprene gloves, impervious gloves, breakthrough time of gloves should be greater than intended use period.

Eye Protection: Ideally full face shield with goggles underneath. Chemical resistant goggles must be worn.

Skin and Body Protection: Impervious clothing, full rubber suit, rubber or plastic boots, long sleeve shirt and pants without cuffs, slicker suit.

Protection and Hygiene: Discard contaminated leather articles. Wash at the end of use and before eating, smoking or using the toilet.

SECTION 9: SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

(1) Prevent skin and eye contact; (2) Avoid breathing vapors; (3) Re-seal part-used containers; (4) label all containers properly to avoid accidental ingestion; (5) wash with soap-water before eating, drinking, Smoking or using toilet facilities; (6) observe conditions of good industrial hygiene and safe working practice.

SECTION 10: TRANSPORT INFORMATION**DOT/IATA**

Proper Shipping Name:	Tetraethylenepentamine Mixture
Hazardous Class:	8
ID Number:	UN2320
Packing Group:	III

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