



ABATRON, INC.

5501 – 95th Ave., Kenosha, WI 53144 U.S.A.
(262) 653-2000 Fax (262) 653-2019
www.abatron.com e-mail: info@abatron.com
24 Hour Emergency No: (800) 424-9300

Material Safety Data Sheet

SECTION 1: Product Identification

Product Name: ABOCOAT 8508-1

Product Code: 8508-1A

Product Class: Resin Solution

Product Type: Proprietary Epoxy Compound

Manufacturer/Supplier:

Abatron Incorporated
5501 95th Ave., Kenosha WI, 53144
Phone: 262-653-2000

Effective Date:

September 24, 2013

Telephone:

For 24 Hour Emergency Assistance
Call CHEMTREC (800) 424-9300

SECTION 2: Hazard Identification

Material Classification: Classified by OSHA 29CFR 1910.1200 as a Hazardous Material

Emergency Overview:



Clear, light straw-yellow liquid with a solvent odor. Warning! This material is a flammable liquid with flammable vapors. Mixture contains material which is a suspected carcinogen. May cause kidney and liver damage through prolonged or repeated exposure. Danger! Toxic if swallowed. Material may cause eye, skin and respiratory tract irritation. Material contains a substance that may impair female fertility,

SECTION 3: Composition/Ingredient Information

Composition: Trade secret. Proprietary Epoxy Prepolymers and solvents.

SECTION 4: First-Aid Measures

Eye Contact: May cause eye irritation. Moderate corneal injuries may occur. Check for and remove contact lenses, if easy to do. Irrigate eyes with flowing water immediately for at least 15 minutes, occasionally lifting the upper and lower eyelids. Refer to medical personnel.

Skin Contact: Minor irritation, may be a skin sensitizer. Could be absorbed in toxic amounts if not removed. Flush skin with water or soap water immediately for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing and clean shoes before reuse. Get medical attention immediately.

Inhalation: Irritation to the upper respiratory tract, dizziness, headache and central nervous system impairment may occur. Remove to fresh air if effects occur and contact medical personnel immediately. If person is not breathing or breathing is irregular, provide oxygen with the aid of trained medical personnel only. Loosen tight clothing such as a collar, tie, belt or waistband. If unconscious, place in recovery position and seek medical attention immediately.

Ingestion: Toxic. Harmful or fatal if swallowed. Immediately contact medical personnel. Do not induce vomiting unless told to by trained medical personnel. Do not give fluids. If spontaneous vomiting is inevitable, prevent aspiration by keeping the victim's head below the knees. Never give anything by mouth to an unconscious person.

SECTION 5: Fire-Fighting Measures

Flash Point: 84°F (29°C)

Method Used: ASTM D3278-96

Flammable Limits (STP In Air)

LFL: 1 **UFL:** 6.2

Extinguishing Media: Dry chemical, CO₂, water spray (fog) or foam. DO NOT use water jet.

Specific Hazards and Procedures: Clear fire area of all non-emergency personnel. No action should be taken involving any personal risk without suitable training. Move container from fire area if this can be done without risk. Use water jet to cool surrounding containers. In case of fire, smoke may contain the original material in addition to combustion products of varying composition with may be toxic or irritating.

Specific Fire Fighting Equipment: Appropriate protective equipment and self-containing breathing apparatus (SCBA) with a full face-piece operating in positive pressure mode should be worn. Avoid contact with material.

SECTION 6: Accidental Release Measures

Personal Protective Measures: Evacuate surrounding areas. Do not walk through or touch spilled material. Shut off all ignition sources. Avoid breathing vapor or mist. Use appropriate safety equipment.

Clean Up/Disposal Method: Stop leak if without risk. Shut off all electrical equipment and protect from ignition. If able, remove containers from spill area. Soak in absorbent material or scrape up. Residual resin can be removed by use of non-flammable solvent such as methylene chloride. Prevent entry into sewers, basements, water courses or confined areas. Use spark-proof tools and explosion-proof equipment. Discharge, treatment or disposal may be subject to national, state, or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 7: Handling and Storage

Precautions: Practice good caution and personal cleanliness to avoid eye and skin contact. Avoid breathing vapors if generated. Turn off and avoid sources of ignition. Ground all equipment. Material may result in spontaneous combustion.

Storage Information: Store in a well ventilated place. Keep container tightly closed. Avoid direct sunlight, and keep away from food and drink. Do not store in unlabeled containers

SECTION 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

OSHA (PEL/TWA) 4-methylpentan-2-one (CAS# 108-10-1): 410 (PEL), 205(TWA) mg/m³
Ethylene glycol monobutyl ether (CAS# 111-76-2): 240(PEL), 120(TWA) mg/m³
Xylene (CAS # 1330-20-7): 435 mg/m³

ACGIH (TLV/TWA) 4-methylpentan-2-one (CAS# 108-10-1): 20ppm
Ethylene glycol monobutyl ether (CAS# 111-76-2): 20 ppm
Xylene (CAS # 1330-20-7): 20 ppm

Engineering Controls: Use only with adequate ventilation. Use explosion-proof ventilation equipment.

Personal Protective Equipment

Respiratory: Organic vapor type.

Skin Protection: Clean body-covering clothing, disposable, chemical resistant gloves. Disposable containers and paper in work area.

Eye Protection: Safety goggles plus full face shield.

Other: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling product.

SECTION 9: Physical and Chemical Properties

Appearance: Clear, light straw-yellow liquid

Odor Threshold: NA

Melting Point/Freezing Point: NA

Flash Point: 84°F (29 °C)

Flammability Limits: LFL: 1.0, UFL: 6.2

Vapor Pressure: 12 mmHg

Specific Gravity: 1.1-1.2

Partition Coefficient: NA

Decomposition Temperature: NA

Odor: Solvent odor

pH: ~3.0

Boiling Point: N/A

Evaporation Rate: N/A

Explosive Limits: N/A

Vapor Density (Air = 1): N/A

Solubility: Negligible

Auto-Ignition Temp.: NA

Viscosity: 50-190cps

SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions. Avoid high temperatures, heat and open flames.

Incompatibility: Oxidizers, active acids and bases.

Hazardous Decomposition Products: May produce chlorine or fluorine gas, aldehydes, ketones and organic acids.

Hazardous Polymerization: Will most likely not occur.

SECTION 11: Toxicological Information

Routes of Exposure: Inhalation, skin contact, eye contact, ingestion.

Primary Symptoms: May cause irritation to the eye and the respiratory system, may be a skin sensitizer. Harmful if swallowed.

Effects of Overexposure: Irritation to the liver, kidney and nervous system may occur. Central nervous system depression as well as dizziness and headache may also occur. Possible anesthesia may occur. Contains substance which may impair female fertility.

Acute Toxicity

Oral LD50 (Rat): 1725 mg/kg

Dermal LD50 (Rabbit): 1817mg/kg

Carcinogenicity: 4-methylpentan-2-one (CAS#108-10-1) is classified by IARC as 2B, possibly carcinogenic to humans. This classification is based on no evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in animals.

SECTION 12: Ecological Information

Ecotoxicity: No data is available on the product itself.

Persistence/Degradability: No data available.

Bioaccumulation: No data is available on the product itself.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Waste Disposal: All disposals must be in accordance with Federal, State and Local laws and regulations.

SECTION 14: Transportation Information

DOT/IATA:

Proper Shipping Name: Flammable Liquid N.O.S.(Ethyl Benzene, Xylene)

Hazardous Class: 3

ID Number: UN1993

Packing Group: III

Marine Pollutant: N/A

Special Precautions: N/A

SECTION 15: Regulatory Information

HCS Classification: Classified by OSHA 29CFR 1910.1200 as a Hazardous Material.

TSCA Status: The material Benzene, 1-chloro-4-(trifluoromethyl)- is subject to a 1 time (per country) reporting export notification under TSCA 12(b).

SARA 311/312 Class: Material contains one or more substances classified as a fire hazard, immediate and delayed health hazard.

SARA 313: The following materials can be found on the SARA 313 Toxic Release Inventory list:

Hazardous Substance and Ingredients		
<i>Name</i>	<i>CAS #</i>	<i>Concentration</i>
4-methylpentan-2-one	108-10-1	<17%
Xylene	1330-20-7	<7.5%

Other Regulations: Material contains a substance listed as a carcinogen under California Prop 65.

SECTION 16: Other Information

Created: September 5, 2013

Last Updated: September 24, 2013

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 8508-1

Product Code: 8508-1B

Product Class: Curing Agent

Product Type: Proprietary liquid epoxy coreactants

Manufacturer/Supplier:

Abatron Incorporated
5501 95th Ave., Kenosha WI, 53144
Phone: 262-653-2000

Effective Date:

September 24, 2013

Telephone:

For 24 Hour Emergency Assistance
Call CHEMTREC (800) 424-9300

SECTION 2: Hazard Identification

Material Classification: Classified by OSHA 29CFR 1910.1200 as a Hazardous Material

Emergency Overview:



Opaque, colored liquid with an organic solvent and ammonia odor. Warning! This material is a flammable liquid with flammable vapors. Material contains substances that are known and suspected of being carcinogenic to humans as well as a substance that could negatively affect female reproductive organs and fertility. Danger! Toxic if swallowed. Material may cause eye, skin, and respiratory tract irritation.

SECTION 3: Composition/Ingredient Information

Composition: Trade secret. Alkylene amines in significant quantities.

SECTION 4: First-Aid Measures

Eye Contact: May cause eye irritation or burns. May cause blindness. Irrigate with flowing water immediately for at least 15 minutes, holding eyelids apart. Get immediate medical attention. If physician not available, continue flushing eyes with water for 1 hour.

Skin Contact: May cause skin irritation or burns. Flush with water for at least 15 minutes. Remove contaminated clothing and shoes. Launder clothing before reuse, discard contaminated leather. Seek medical attention. Cover wound with sterile dressing.

Inhalation: Irritation to the respiratory tract and central nervous system impairment may occur. Damage to lungs may also occur. Remove to fresh air if effects occur and contact medical personnel immediately. If person is not breathing or breathing is irregular, provide oxygen with the aid of trained medical personnel only. If unconscious, place in recovery position and seek medical attention immediately.

Ingestion: Toxic. Harmful or fatal if swallowed. Damage to mucus membrane may occur. Immediately contact medical personnel. Do not induce vomiting as it may cause further damage to the throat, unless told to by trained medical personnel. Prevent aspiration of vomit. Turn victim's head to the side. Dilute by giving water if victim is conscious. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing.

SECTION 5: Fire-Fighting Measures

Flash Point: 87 °F (30.56°C)

Flammable Limits (STP In Air)

Method Used: ASTM D3278-96

LFL: N/A **UFL:** N/A

Extinguishing Media: CO₂, Foam or extinguishing powder. Do not use high pressure water jet.

Specific Hazards and Procedures: Clear fire area of all non-emergency personnel. Closed containers may rupture when exposed to extreme heat. Water may spread fire. Avoid open flames and sources of ignition. Keep containers cool with water spray. May produce ammonia and toxic nitrogen oxide gases. Do not allow run-off from fire fighting enter drains or water courses.

Specific Fire Fighting Equipment: Wear self-contained breathing apparatus, face shield and full protective clothing. Avoid contact with skin.

SECTION 6: Accidental Release Measures

Personal Protective Measures: Use appropriate safety equipment. Exclude people from the area without proper protective clothing, gloves, goggles, etc. Avoid open flames and sources of ignition. Avoid contact with skin and eye, and ensure only trained personnel are performing the clean-up. Avoid inhalation of dust.

Clean Up/Disposal Method: Soak in absorbent material or scrape up. Pump liquid into a salvage tank. Discharge, treat, or disposal may be subject to national, state or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Avoid dusting during clean-up.

SECTION 7: Handling and Storage

Precautions: Practice good caution and personal cleanliness to avoid eye and skin contact. Avoid breathing vapors if generated. Turn off and avoid sources of ignition. Do not empty waste into waste water drains.

Storage Information: Store in a well ventilated, cool, dry place. Keep container tightly closed. Do not store near acids. Protect from direct sunlight.

SECTION 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

OSHA	PEL/TWA	Amorphous Silica (CAS# 7631-86-9): 0.80 (TWA) mg/m ³ Crystalline Silica, Quartz (CAS# 14808-60-7): 0.10 (TWA) mg/m ³ Ethanol, 2-butoxy- (CAS# 111-76-2): 240 (PEL), 375 (TWA) mg/m ³ Ethylbenzene (CAS # 100-41-4): 435 (PEL), 43 (TWA) mg/m ³ Ground Limestone (CAS# 1317-65-3): 15 mg/m ³ Titanium dioxide (CAS# 13463-67-7): 15 (PEL), 10 (TWA) mg/m ³ Toluene (CAS# 108-88-3): 200(TWA) ppm Xylene (CAS# 1330-20-7): 435mg/m ³
ACGIH	TLV/TWA	Aluminum hydroxide (CAS#21645-51-2): 1 mg/m ³ Ethylbenzene (CAS# 100-41-4): 20ppm Titanium dioxide (CAS# 13462-67-7): 1 mg/m ³ Toluene (CAS# 108-88-3): 20 ppm Xylene (CAS# 1330-20-7): 150 ppm

Engineering Controls: Good natural ventilation will be sufficient in most circumstances.

Personal Protective Equipment

Respiratory: NIOSH-Approved respiratory protection in absences of proper environmental control. For emergencies, self-contained breathing apparatus or full-face respirator is recommended.

Skin Protection: Clean body-covering clothing, disposable solvent-proof protective gloves. Disposable containers and paper in work area.

Eye Protection: Splash-proof goggles or safety glasses with side shields and a full face shield.

Other: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and Chemical Properties

Appearance: Colored opaque liquid. Different pigments and inert fillers may cause slight variations.

Odor: Organic Solvent and ammonia odor.

Odor Threshold: NA

Melting Point/Freezing Point: NA

Flash Point: 87°F (30.56 °C)

Flammability Limits: N/A

Vapor Pressure: N/A

Specific Gravity: 1.48-1.64

Partition Coefficient: NA

Decomposition Temperature: NA

pH: 6-7

Boiling Point: N/A

Evaporation Rate: N/A

Explosive Limits: N/A

Vapor Density (Air = 1): N/A

Solubility: Moderate

Auto-Ignition Temp.: NA

Viscosity: 300-10000 cps

SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions. Avoid high temperatures, heat and open flames.

Incompatibility: Avoid contact with strong oxidizing agents, organic acids, sodium hypochlorite, mineral acids, alkalis and epoxy resins under uncontrolled conditions.

Hazardous Decomposition Products: CO, CO₂, Nitrogen Oxides, ammonia, nitric acid, silicon dioxide, formaldehyde.

Hazardous Polymerization: None know.

SECTION 11: Toxicological Information

Routes of Exposure: Inhalation, skin contact, eye contact, ingestion

Primary Symptoms: May cause irritation to the eye and the respiratory system, as well as possible CNS depression. Harmful if swallowed. If absorbed through skin, there may be adverse effects on blood and hematopoietic system.

Effects of Overexposure: Kidney and liver damage, cochlear or visual impairment, chronic lung disease, pneumoconiosis, neurotoxicity as well as female reproductive damage or loss of pregnancy may occur with overexposure. Nausea and vomiting may occur.

Acute Toxicity

Oral LD50 (Rat): 2594mg/kg

Dermal LD50 (Rabbit): 11200mg/kg

Carcinogenicity: The materials Ethylbenzene (CAS# 100-41-4) and Titanium dioxide (CAS# 13463-67-7) are classified by IARC as 2B, possibly carcinogenic to humans. Both claims are supported by inadequate evidence in humans but sufficient evidence in animals. The material Crystalline Silica, Quartz (CAS# 14808-60-7) is classified by IARC as 1, carcinogenic to humans, based on sufficient evidence in both humans and animals. Crystalline Silica, Quartz is also listed by the NTP as a carcinogenic material. Product contains <0.5% Crystalline Silica, Quartz.

SECTION 12: Ecological Information

Ecotoxicity: No data is available on the product itself.

Persistence/Degradability: No data available.

Bioaccumulation: No data is available on the product itself.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Waste Disposal: All disposals must be in accordance with Federal, State and Local laws and regulations.

SECTION 14: Transportation Information**DOT/IATA:**

Proper Shipping Name: Flammable Liquid N.O.S.(Xylene)

Hazardous Class: 3

ID Number: UN1993

Packing Group: III

Marine Pollutant: N/A

Special Precautions: N/A

SECTION 15: Regulatory Information

HCS Classification: Classified by OSHA 29CFR 1910.1200 as a Hazardous Material.

TSCA Status: All of the materials in this product comply and are not subject to TSCA 12(b) reporting.

SARA 311/312 Class: Material contains one or more substances classified as a fire hazard, acute and chronic health hazards

SARA 313: The following materials can be found on the SARA 313 Toxic Release Inventory list:

Hazardous Substance and Ingredients		
<i>Name</i>	<i>CAS #</i>	<i>Concentration</i>
Ethanol, 2-butoxy-	111-76-2	<7%
Ethylbenzene	100-41-4	<3%
Xylene	1330-20-7	<18%

Other Regulations: Material contains substances listed as carcinogens as well as female reproductive toxins under California's prop 65. Material also contains substances that are listed under Washington State's Chemicals of High Concern to Children.

SECTION 16: Other Information

Created: September 17, 2013

Last Updated: September 24, 2013

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