

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME (as used on Label) **CATEXOL™ 1000 SP-MN**

Product Use: Plasticizer for Concrete.

Manufacturer's Name & Address:

AXIM

P.O. Box 234

8282 Middlebranch Road

Middlebranch, Ohio 44652

Emergency Telephone Number: (800) 424-9300

(CHEMTREC)

Telephone Number for Information: (330) 966-0444

Ext. 2046

Date Prepared: May 2006

MSDS Prepared By: Industrial Health & Safety Consultants, Inc.

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Cancels MSDS #: October 2004

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SECTION 2. HAZARDS IDENTIFICATION

This product is a brown liquid with a slight odor.

EMERGENCY OVERVIEW

WARNING!

May cause eye and skin irritation. May cause skin or respiratory sensitization (allergic reaction). Repeated exposure may cause liver and kidney damage. Cancer Hazard. Contain formaldehyde, which may cause cancer. The risk of cancer is dependent on the level and duration of exposure.

See Section 11 for detailed information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount by Wt.
Triethanolamine	102-71-6	1-5%
Formaldehyde	50-00-0	0.1%

SECTION 4. FIRST AID MEASURES

Eye: Immediately flush eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation persists.

Skin: Remove contaminated clothing. Immediately wash skin thoroughly with water. If irritation develops or persists, get medical attention. Launder clothing before re-use.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If conscious, rinse mouth with water and give one glass of water. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

Inhalation: Immediately remove to fresh air. Get medical attention if symptoms persist.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing Media: This product is not combustible but residue will burn after the water has evaporated. Use any media that is appropriate for the surrounding fire.

Special Fire Fighting Procedure: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals.

Unusual Fire and Explosion Hazards: None known.

Hazardous Combustion Products: Burning of residue may release oxides of carbon, nitrogen and sulfur and ammonia.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing as described in Section 8. Contain and collect liquid with an inert absorbent and place into container. Wash spill area with water and collect water for proper disposal. Report releases as required by local, state and federal authorities.

SECTION 7. HANDLING AND STORAGE

Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing vapors or mists. Use only in well ventilated areas. Wear appropriate protective clothing and equipment. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. In the United States assure compliance with the OSHA Formaldehyde Standard 29CFR1910.1048.

Do not reuse un-approved containers. Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

Storage: Store in a cool, well ventilated area away from incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Triethanolamine	5 mg/m ³ TLV-TWA
Formaldehyde	0.75 ppm PEL-TWA 2 ppm PEL-Ceiling 0.3 ppm TLV-Ceiling

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain concentrations below the occupational exposure limits.

Respiratory Protection: If exposure levels are exceeded, a NIOSH approved formaldehyde/ particulate respirator should be worn. For higher exposures, a supplied air respirator may be required. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134, 1910.1048, CSA Standard Z94.4-02 and good industrial hygiene practice.

Skin Protection: Wear impervious gloves such as butyl rubber to avoid contact.

Eye Protection: Chemical safety goggles are recommended.

Other: Wear impervious clothing as needed to avoid contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Brown liquid with a slight odor.

Physical State: Liquid	Boiling Point: Not determined
Vapor Density: Not determined	Vapor Pressure: Not determined
Solubility In Water: 100%	Evaporation Rate: Same as water
Specific Gravity: 1.190 +/- 0.019 @ 25°C	pH: 10 +/- 1.0
Melting Point: Not applicable	Octanol/Water Coefficient: Not determined
Flash Point: None	Flammable Limits: LEL: Not applicable UEL: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents, strong bases, strong acids.

Hazardous Decomposition Products: Burning of residue may release oxides of carbon, sulfur and ammonia.

Hazardous Polymerization: Will Not Occur

SECTION 11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Ingestion: Ingestion may cause irritation of the mouth, throat and gastrointestinal tract, nausea, vomiting and diarrhea. Not expected to be acutely toxic if swallowed.

Inhalation: Inhalation of vapors or mists may cause nose, throat and upper respiratory irritation.

Eye: Contact may cause irritation with redness and tearing.

Skin: Brief contact is not expected to cause irritation. May cause irritation with redness, swelling, itching and burning on prolonged contact.

Sensitization: This product may cause respiratory and/or skin sensitization.

Chronic: Repeated exposure may result in skin sensitization and/or respiratory sensitization with asthmatic symptoms. Prolonged exposure to triethanolamine may cause liver and kidney damage.

Carcinogenicity: Formaldehyde is listed by IARC as a known human carcinogen, by NTP as reasonably anticipated to be a carcinogen, by ACGIH as a suspected human carcinogen and is regulated by OSHA as a carcinogen.

Mutagenicity: Formaldehyde has tested positive in various mutagenic assays.

Medical Conditions Aggravated by Exposure: Employees with pre-existing skin and respiratory conditions may be at increased risk from exposure.

Acute Toxicity Values:

Triethanolamine: Oral Rat LD50 >5000 mg/kg; Skin Rabbit LD50 >2000 mg/kg

Formaldehyde: Oral Rat LD50 100 mg/kg; Skin Rabbit LD50 270 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Formaldehyde: LC50 fathead minnow 28.1 mg/L; LC50 rainbow trout 198 mg/L.

Triethanolamine: LC50 daphnia 947 mg/L/48 hr; LC50 fathead minnow 5600 mg/L/96 hr.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose according to local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

This product is not regulated for transportation by US DOT or Canadian TGD in non-bulk packaging.

Contains with greater than 100,000 lbs:

RQ, Environmentally Hazardous Substance, liquid, n.o.s. (contains formaldehyde), 9, UN3082, PG III

Surface Freight Classification: Concrete or Masonry Plasticizer and Water Reducing Compound

SECTION 15. REGULATORY INFORMATION

CERCLA: This product has a RQ of 100,000 lbs based on 0.1% maximum formaldehyde with an RQ of 100 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute health, Chronic health

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Formaldehyde	50-00-0	0.1%
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EPA TSCA Inventory: All of the ingredients in this product are listed on, or exempt from, the EPA TSCA Inventory.

CANADA:

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

Canadian WHMIS Classification: Class D - Division 2 - Subdivision A - (A very toxic material causing other chronic effects)

Canadian CEPA: All of the ingredients in this product are listed on, or exempt from, the Canadian DSL.

SECTION 16. OTHER INFORMATION

NFPA Rating: Health = 2

Fire = 0

Instability = 0

HMIS Rating: Health = 2*

Fire = 0

Reactivity = 0

4 = Severe Hazard 3 = Serious Hazard 2 = Moderate Hazard 1 = Slight Hazard 0 = Minimal Hazard

*Chronic Health Hazard

REVISION SUMMARY:

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The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of this data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, state and local laws and regulation applicable to safety, occupational health, right to know and environmental protection.