



ProCast™ Admixtures

(ProCast™ 110, 130, 150, 170, 190, 200, 210, 410, 500, 510, 710, 930, 950 and 970)

SECTION 1. IDENTIFICATION

| | |
|----------------------------|--|
| Product Identifier | ProCast™ Admixtures (ProCast™ 110, 130, 150, 170, 190, 200, 210, 410, 500, 510, 710, 930, 950 and 970) |
| Product Family | ProCast® |
| Recommended Use | Chemical admixtures for manufactured concrete products. |
| Restrictions on Use | For industrial use only. |
| Manufacturer | ACM Chemistries, Inc., P.O. Box 920430, Norcross, GA, 30010, (770) 417-3490 |
| Emergency Phone No. | ACM Chemistries, Inc., (800)-424-9300, 24 hours |
| SDS No. | 002-003 |
| Date of Preparation | November 8, 2018 |

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation - Category 2;

Serious eye damage/eye irritation - Category 2B

GHS Label Elements



Warning

H315 Causes skin irritation.
H320 Causes eye irritation.

Prevention:

P280 Wear protective gloves and eye protection.

P264 Wash hands and skin thoroughly after handling.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation occurs: Get medical attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

| Chemical Name | CAS No. | % | Other Identifiers |
|---------------------------------------|------------|--------|-------------------|
| Non-hazardous Proprietary Ingredients | CBI* | ≤ 50 | |
| Triethanolamine | 00102-71-6 | ≤ 15 | |
| Diethanolamine | 00111-42-2 | ≤ 0.15 | |

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs get medical advice/attention.

Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

Ingestion

Rinse mouth with water. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Get medical advice/attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If on skin: can cause effects as described for skin contact. If in eyes: may cause mild irritation.

Immediate Medical Attention and Special Treatment

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Specific Hazards Arising from the Chemical

In a fire, the following hazardous materials may be generated: carbon monoxide, carbon dioxide, nitrous oxides, and sulfur oxides.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Fight fire from a safe distance or a protected location.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Small spills or leaks: stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

Large spills or leaks: dike spilled product to prevent runoff. Remove or recover liquid using pumps or vacuum equipment.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Prevent skin contact.
Do not get in eyes.
Avoid breathing in this product.
Only use where there is adequate ventilation.
Wear personal protective equipment to avoid direct contact with this chemical.
Keep containers tightly closed when not in use or empty.

General hygiene considerations: do NOT eat, drink or store food in work areas. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

Conditions for Safe Storage

Protect from freezing.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Chemical Name | ACGIH TLV® | | OSHA PEL | | AIHA WEEL | |
|-----------------|---------------------|------|----------|---------|-----------|-----|
| | TWA | STEL | TWA | Ceiling | 8-hr TWA | TWA |
| Diethanolamine | 1 mg/m ³ | | 3 ppm | | | |
| Triethanolamine | 5 mg/m ³ | | | | | |

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear impervious rubber gloves to prevent prolonged or repeated contact.
Suitable materials are: nitrile rubber, natural rubber, butyl rubber.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

| | |
|--|--|
| Appearance | Clear yellowish to amber / brown liquid. Particle Size: Not applicable |
| Odor | Mild |
| Odor Threshold | Not available |
| pH | 5.0 - 10.5 |
| Melting Point/Freezing Point | Not applicable (melting); Not available (freezing) |
| Initial Boiling Point/Range | Not available |
| Flash Point | > 200 °F (93 °C) |
| Evaporation Rate | Not available |
| Flammability (solid, gas) | Not applicable |
| Upper/Lower Flammability or Explosive Limit | Not available (upper); Not available (lower) |
| Vapor Pressure | Not available |
| Vapor Density (air = 1) | Not available |
| Relative Density (water = 1) | 1.0 - 1.2 at 25 °C |
| Solubility | Dispersible in water; Not available (in other liquids) |

| | |
|---|---|
| Partition Coefficient, n-Octanol/Water (Log Kow) | Not available |
| Auto-ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Viscosity | Not available (kinematic); 10 - 500 centipoises (dynamic) |
| Other Information | |
| Physical State | Liquid |
| Molecular Formula | Not applicable |
| Molecular Weight | Not applicable |
| Bulk Density | Not available |
| Surface Tension | Not applicable |
| Critical Temperature | Not available |
| Electrical Conductivity | Not available |
| Vapor Pressure at 50 deg C | Not available |
| Saturated Vapor Concentration | Not available |

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Conditions to Avoid

Freezing. Contamination. Temperatures below 4.4 °C (40.0 °F)

Incompatible Materials

Avoid contact with strong oxidizing agents and acids.

Hazardous Decomposition Products

In a fire, the following hazardous materials may be generated: carbon monoxide, carbon dioxide, nitrous oxides, and sulfur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| Chemical Name | LC50 | LD50 (oral) | LD50 (dermal) |
|-----------------|------|--------------------|------------------------------|
| Diethanolamine | | 710 mg/kg (rat) | 12200 mg/kg (rabbit) (vapor) |
| Triethanolamine | | 5846 mg/kg (mouse) | > 22,500 mg/kg (rabbit) |

Skin Corrosion/Irritation

May cause irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation

May cause irritation based on information for closely related chemicals.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

| Chemical Name | IARC | ACGIH® | NTP | OSHA |
|-----------------|----------|------------|------------|------------|
| Diethanolamine | Group 2B | | Not Listed | Not Listed |
| Triethanolamine | Group 3 | Not Listed | Not Listed | Not Listed |

No information was located.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

No information was located.

Acute Aquatic Toxicity

| Chemical Name | LC50 Fish | EC50 Crustacea | ErC50 Aquatic Plants | ErC50 Algae |
|-----------------|--|--|----------------------|-------------|
| Diethanolamine | 1460 mg/L (Pimephales promelas (fathead minnow); 96-hour) | | | |
| Triethanolamine | 450-1,000 mg/L (Lepomis macrochirus (bluegill); 96-hour) | 609.98 mg/L (Daphnia magna (water flea); 48-hour) | | |

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

This product is a non-hazardous waste. Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Environmental Hazards Not applicable

Special Precautions for User Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

Additional USA Regulatory Lists

CERCLA. (Diethanolamine) CERCLA RQ - 100 lb

SARA Title III - Section 302: No

SARA Title III - Section 311/312: Immediate (acute) health hazard

SARA Title III - Section 313: Yes. (Diethanolamine)

SECTION 16. OTHER INFORMATION

Revision Indicators SDS Prepared by M. Oesterle; Date of Preparation: November 8, 2018.

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