

ProCast™ 330

SECTION 1. IDENTIFICATION

Product Identifier	ProCast™ 330
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
Other Contact Information	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.	005-002
Date of Preparation	June 6, 2018

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) - Category 4;
Acute toxicity (Inhalation) - Category 4;
Skin corrosion/irritation - Category 2;
Serious eye damage/eye irritation - Category 2A

GHS Label Elements



Warning

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Prevention:	
P280	Wear protective gloves and eye protection.
P261	Avoid breathing vapors, mist.
P264	Wash hands and skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
Response:	
P301 + P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P330	Rinse mouth. Do not induce vomiting.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTRE/doctor if you feel unwell.
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 persists: Get medical advice/attention.
Disposal:	
P501	Dispose of contents in accordance with local regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Calcium(II) nitrate, tetrahydrate (1:2:4)	13477-34-4	60-75	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice/attention if you feel unwell or are concerned.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely. If skin irritation occurs get medical advice/attention.

Eye Contact

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

Immediately call a Poison Centre or doctor. Give one to two glasses of water or milk. Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again.

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

If evaporated to dryness, this product is an oxidizer and can sustain combustion. Decomposition may yield calcium compounds and oxides of nitrogen.

Special Protective Equipment and Precautions for Fire-fighters

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

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. Review Section 13 (Disposal Considerations) of this safety data sheet.

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

Store in an area that is: cool, dry. Protect from freezing. Protect from sunlight.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH, OSHA, and NIOSH have not developed exposure limits for this product's components.

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

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	Colorless to light aqua liquid. Particle Size: Not applicable
Odour	Odourless
Odour Threshold	Not available
pH	3.0 - 9.0
Melting Point/Freezing Point	Not applicable (melting)
Initial Boiling Point/Range	> 100 °C (212 °F)
Flash Point	Not applicable
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.4 - 1.5 at 25 °C (77 °F)
Solubility	Very soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable

Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not applicable
Molecular Weight	Not applicable
Bulk Density	Not available
Surface Tension	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Do not allow product to become dry. Freezing. Contamination.

Incompatible Materials

This product is incompatible with flammable and combustible materials, strong reducing agents, and finely powdered metals.

Hazardous Decomposition Products

Decomposition may yield calcium compounds and oxides of nitrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Calcium(II) nitrate, tetrahydrate (1:2:4)		3900 mg/kg (rat)	

Skin Corrosion/Irritation

This product is irritating to the skin. Depending on the duration of contact, symptoms will include reddening, discomfort, irritation, and possible tissue damage.

Serious Eye Damage/Irritation

Contact with the eyes can cause moderate irritation. Symptoms may include discomfort or pain and redness. Severe over exposure can result in swelling of the conjunctiva along with tissue damage which may lead to blindness.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

This product is irritating to the respiratory system. Inhalation of vapours or mists of the product can cause sneezing, coughing and difficulty breathing.

Skin Absorption

No information was located.

Ingestion

This product may be harmful or fatal if swallowed. If ingested, this product will immediately cause burns to the mouth, throat, esophagus and possibly the digestive tract. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma and rarely death.

Aspiration HazardNo information was located.

Respiratory and/or Skin Sensitization

Repeated skin contact with this material may produce dermatitis.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Calcium(II) nitrate, tetrahydrate (1:2:4)	Not Listed	Not Listed	Not Listed	Not Listed

Not known to cause cancer.

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.

Germ Cell Mutagenicity

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

In high concentrations, this product may be harmful to both terrestrial and aquatic plant life.

Toxicity

No information was located.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Calcium(II) nitrate, tetrahydrate (1:2:4)	98.9 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)			

Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate.

Mobility in Soil

No information was located.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

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 or are not required to be listed.

Calcium Nitrate Tetrahydrate is a hydrate of an anhydrous form that is on the Canadian DSL inventory and can be found under the parent compound name Nitric Acid, Calcium salt (CAS 10124-37-5).

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.

Calcium Nitrate Tetrahydrate is a hydrate of an anhydrous form that is on the US TSCA inventory and can be found under the parent compound name Nitric Acid, Calcium salt (CAS 10124-37-5).

Additional USA Regulatory Lists

SARA Title III - Section 302: No

SARA Title III - Section 313: Form R reporting required for 1.0% de minimis concentration; Chemical Category N511 (Related to Water Dissociable Nitrate Compounds).

SARA Title III - Section 311/312: Immediate (Acute) Health Hazard.

SECTION 16. OTHER INFORMATION

Revision Indicators SDS Prepared by M. Oesterle; Date of Preparation: June 6, 2018.

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