


SAFETY DATA SHEET

NCA

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name:	NCA
Product Form:	Mixture
1.2 Product Use:	Concrete Accelerator
1.3 Supplier/Manufacturer:	Umaco, Inc. 60 Rear Newhall Street Lowell, MA 01852 Phone: 978-453-8881
1.4 Emergency Number:	CHEMTREC (800) 424-9300

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the Chemical:	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Hazard Class: Serious Eye Damage/Eye irritation	Category 1
2.2 Label Elements:	
Single Word:	Danger
Hazard Statement:	Causes serious eye damage.
Prevention:	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust.
Response: If in Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
2.3 Additional Information:	
Hazards not otherwise classified:	None identified.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures:		
Ingredient	CAS#	Wt.%
Calcium Formate	544-17-2	>95

Section 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:	
Eye:	In case of contact, immediately flush eyes with plenty of water, also under eye lids, for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
Skin:	In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Call a physician if irritation develops and persists.
Inhalation:	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Ingestion:	If swallowed, clean mouth with water. Get medical attention.
4.2 Most Important Symptoms & Effects both Acute & Delayed:	
Eye:	Causes eye burns.
4.3 Indication of Any Immediate Medical Attention and Special Treatments Needed:	
Note to Physicians:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Unsuitable Extinguishing Media: No information available

Flash Point: No information available

Method - No information available

Autoignition Temperature No information available

Explosion Limits

Upper: No data available

Lower: No data available

Sensitivity to Mechanical Impact: No information available

Sensitivity to Static Discharge: No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products: Carbon monoxide (CO) Carbon dioxide (CO₂)

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA			
Health	Flammability	Instability	Physical Hazards
2	0	0	N/A

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:	Ensure adequate ventilation. Use personal protective equipment. See Section 12 for additional ecological information.
6.2 Methods and Materials for Containment/Cleanup:	
Methods for Containment and Cleanup:	Sweep up or vacuum up spillage and collect in suitable container for disposal.

Section 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:	
Handling:	Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.
7.2 Conditions for Safe Storage, Including Any Incompatibilities:	
Storage:	Keep in a dry, cool and well ventilated place. Keep container tightly closed. Keep out of the reach of children.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Exposure Guidelines:	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
8.2 Engineering Measures:	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
8.3 Individual Protective Measures:	
Personal Protective Equipment:	
Eye/Face Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and Body Protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection :	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
General Hygiene Considerations:	Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:	
Appearance:	Powder Solid
Color:	White
Odor:	vinegar-like
Odor Threshold:	N/A
Physical State:	Powder Solid
pH:	N/A
Viscosity:	N/A
Boiling Point:	N/A
Melting Point:	> 300°C / >572°F
Flash Point:	N/A
Evaporation Rate:	N/A
Flammability (solid, gas):	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Relative Density:	2.02
Lower Explosion Limit:	N/A
Upper Explosion Limit:	N/A
Solubility in Water:	N/A
Partition coefficient; n-octanol/water:	N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Molecular Formula:	C ₂ H ₂ Ca O ₄
Molecular Weight:	130.11

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity:	None known, based on information available
10.2 Chemical Stability:	Stable under normal conditions. Keep in dry storage.

10.3 Hazardous Reactions:	None under normal processing.
10.4 Conditions to Avoid:	Incompatible products.
10.5 Incompatible Materials:	Strong oxidizing agents, Strong acids
10.6 Hazardous Decomposition Products:	Carbon monoxide (CO), Carbon dioxide (CO ₂)
10.7 Hazardous Polymerization:	Hazardous polymerization does not occur.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:			
Ingredient	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium Formate	2650 mg/kg (rat)	Not listed	Not listed

Toxicologically Synergistic Products: No information available

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Calcium Formate	544-17-2	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Delayed, Immediate and Chronic Effects of Short and Long Term Exposure:

Carcinogenicity:	The table above indicates whether each agency has listed any ingredient as a carcinogen.
Irritation:	No information available.
Sensitization:	No information available.
STOT-Single Exposure:	None known.
Symptoms/effects, both acute and delayed:	No information available.
Mutagenic Effects:	No information available.
Reproductive Effects:	No information available.
STOT-Repeated Exposure:	None known.
Developmental Effects:	No information available.
Teratogenicity:	No information available.
Aspiration Hazard:	No information available.
Endocrine Disruptor Information:	No information available.
Other Adverse Effects:	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	Do not empty into drains.
12.2 Persistence and Degradability:	No information available.
12.3 Bioaccumulation/Accumulation:	No information available.

12.4 Mobility in Soil:	Calcium Formate:	Log Pow -0.22
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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Calcium Formate	Not listed	1000 mg/L LC50 96 h	EC50>1000 mg/L 3u	Not listed

Section 13: DISPOSAL CONSIDERATION

13.1 Waste Treatment Methods:	
Disposal Method:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14: TRANSPORTATION INFORMATION

14.1 UN Number:	DOT: TDG: NOM-004-SCT2-1994:	Not Regulated Not Regulated Not Regulated
14.2 UN Proper Shipping Name:	DOT: TDG: NOM-004-SCT2-1994:	Not applicable Not applicable Not applicable
14.3 Transport Hazard Class (ES):	DOT: TDG: NOM-004-SCT2-1994:	Not Applicable Not Applicable Not Applicable
14.4 Packing Group:	DOT: TDG: NOM-004-SCT2-1994:	Not Applicable Not Applicable Not Applicable
14.5 Environmental Hazards:		Not Applicable
14.6: Transport in Bulk According to Annex II or Marpol 73/78 and the IBC Code:		Not Applicable
14.7 Special Precautions for User:		Do not handle until all safety precautions have been read and understood

Section 15: REGULATORY INFORMATION

International Inventories	Calcium Formate
TSCA	X
DSL	X

NDSL	-
EINECS	208-863-7
ELINCS	-
NLP	-
PICCS	X
ENCS	X
AICS	X
IECSC	X
KECL	X

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b): Not applicable

SARA 313: Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act: Not applicable

Clean Air Act: Not applicable

OSHA Occupational Safety and Health Administration: Not applicable

CERCLA: Not applicable

California Proposition 65: This product does not contain any Proposition 65 chemicals

State Right-to-Know: Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant: N

DOT Severe Marine Pollutant: N

U.S. Department of Homeland Security: This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade: No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class: E Corrosive material



Section 16: OTHER INFORMATION

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