


# SAFETY DATA SHEET

## NCA

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

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

### Section 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the Chemical:</b>	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
<b>Hazard Class:</b> Serious Eye Damage/Eye irritation	Category 1
<b>2.2 Label Elements:</b>	
<b>Single Word:</b>	Danger
<b>Hazard Statement:</b>	Causes serious eye damage.
<b>Prevention:</b>	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust.
<b>Response:</b> 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.
<b>2.3 Additional Information:</b>	
<b>Hazards not otherwise classified:</b>	None identified.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

## Section 4: FIRST AID MEASURES

<b>4.1 Description of First Aid Measures:</b>	
<b>Eye:</b>	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.
<b>Skin:</b>	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.
<b>Inhalation:</b>	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
<b>Ingestion:</b>	If swallowed, clean mouth with water. Get medical attention.
<b>4.2 Most Important Symptoms &amp; Effects both Acute &amp; Delayed:</b>	
<b>Eye:</b>	Causes eye burns.
<b>4.3 Indication of Any Immediate Medical Attention and Special Treatments Needed:</b>	
<b>Note to Physicians:</b>	Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water spray. Carbon dioxide (CO<sub>2</sub>). 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 (CO<sub>2</sub>)

**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.

<b>NFPA</b>			
<b>Health</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical Hazards</b>
2	0	0	N/A

### Section 6: ACCIDENTAL RELEASE MEASURES

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

### Section 7: HANDLING AND STORAGE

<b>7.1 Precautions for Safe Handling:</b>	
<b>Handling:</b>	Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.
<b>7.2 Conditions for Safe Storage, Including Any Incompatibilities:</b>	
<b>Storage:</b>	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

<b>8.1 Exposure Guidelines:</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>8.2 Engineering Measures:</b>	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>8.3 Individual Protective Measures:</b>	
<b>Personal Protective Equipment:</b>	
<b>Eye/Face Protection:</b>	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.
<b>Skin and Body Protection:</b>	Wear appropriate protective gloves and clothing to prevent skin exposure.

<b>Respiratory Protection :</b>	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.
<b>General Hygiene Considerations:</b>	Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

## Section 10: STABILITY AND REACTIVITY

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

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

## Section 11: TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>			
<b>Ingredient</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
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:

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

## Section 12: ECOLOGICAL INFORMATION

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

<b>12.4 Mobility in Soil:</b>	<b>Calcium Formate:</b>	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

<b>13.1 Waste Treatment Methods:</b>	
<b>Disposal Method:</b>	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

<b>14.1 UN Number:</b>	<b>DOT:</b> <b>TDG:</b> <b>NOM-004-SCT2-1994:</b>	Not Regulated Not Regulated Not Regulated
<b>14.2 UN Proper Shipping Name:</b>	<b>DOT:</b> <b>TDG:</b> <b>NOM-004-SCT2-1994:</b>	Not applicable Not applicable Not applicable
<b>14.3 Transport Hazard Class (ES):</b>	<b>DOT:</b> <b>TDG:</b> <b>NOM-004-SCT2-1994:</b>	Not Applicable Not Applicable Not Applicable
<b>14.4 Packing Group:</b>	<b>DOT:</b> <b>TDG:</b> <b>NOM-004-SCT2-1994:</b>	Not Applicable Not Applicable Not Applicable
<b>14.5 Environmental Hazards:</b>		Not Applicable
<b>14.6: Transport in Bulk According to Annex II or Marpol 73/78 and the IBC Code:</b>		Not Applicable
<b>14.7 Special Precautions for User:</b>		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**

<b>Date of Preparation:</b>	July 1, 2015
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