

# SAFETY DATA SHEET

## HARD-N-FAST

### Section 1. Identification

Product: HARD-N-FAST

Supplier: Illinois Products Corporation  
423 Joseph Drive  
South Elgin, IL 60177  
Phone: 800-383-8183

Recommended use: Mortar accelerator admixture

Emergency telephone: 800-535-5053 Infotrac (24/7)

### Section 2. Hazard Identification

OSHA / HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification:

- Contact Hazard (eye) – Category 1
- Acute Toxicity (inhalation) – No data / not classified
- Acute Toxicity (oral) – Category 4
- Acute Toxicity (dermal) – Not classified as acutely toxic for dermal exposure
- Carcinogenicity – Not classified as a carcinogen per GHS, NTP, IARC, or OSHA

### **GHS Label Elements**

Hazard Pictograms:



Signal Word: Warning

Hazard Statements: Causes skin irritation  
Causes eye irritation  
Harmful if swallowed  
Wear eye and face protection  
Wear protective gloves  
Wash thoroughly after handling  
Do not eat, drink, or smoke when using this product

### **Precautionary Statements**

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection.

Response: Collect spillage. Get medical attention if feeling ill. Rinse skin with water. Wash with soap and water.

Disposal: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

### **Section 3. Composition**

Substance/mixture: Mixture

Other identification: None

CAS number: N/A

Product Code: N/A

<u>Ingredient name</u>	<u>%</u>	<u>CAS Number</u>
Nitric Acid, Ammonium Calcium salt	61-67	15245-12-2
Calcium Diformate	33-39	544-17-2

There are no other ingredients (with current knowledge of supplier and in concentrations available) classified as hazardous to health or the environment.

### **Section 4. First Aid**

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if doing so is possible. If irritation occurs, seek medical attention.

Inhalation: If inhalation of dust occurs and adverse effects result, remove victim to fresh air and keep at rest position comfortable for breathing. Call POISON CENTER or physician if feeling unwell.

Skin contact: Flush contaminated area with plenty of water. Remove contaminated clothing and wash before use. If irritation occurs, seek medical attention.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in position comfortable for breathing. Call POISON CENTER or physician if feeling unwell.

#### Symptoms / Effects (acute and delayed)

Eye contact: Eye irritation. Direct abrasion of cornea from solid, erythema and watering

Inhalation: Inhaling dust may cause irritation to upper respiratory tract.

Skin contact: Skin irritation. Direct abrasion of skin from solid, erythema

Ingestion: Consumption of solids or hypertonic solutions may cause nausea, vomiting, and increased thirst.

#### Indication of immediate medical attention and special treatment

Notes to physician: Treatment of exposure should be directed at the control of symptoms and the condition of the patient. Contact poison specialist if large amounts have been ingested or inhaled.

Specific treatments: None

Protections of first aiders: No action shall be taken involving any personal risk or without suitable training. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission. If potential for exposure exists, refer to section 8 for specific PPE.

## **Section 5. Fire-Fighting Measures**

Fire Hazard: This material does not burn.

Extinguishing Media: Use extinguishing media appropriate to contain surrounding fire. Do not use chemical extinguisher or foam or attempt to smother fire with steam or sand.

Fire fighting: Keep unnecessary personnel away, isolate hazard area, and deny entry. This material does not burn. Fight fire for other material that is burning. Water should be applied in large quantities as fine spray. Wear NIOSH approved positive-pressure self contained breathing apparatus operated in pressure demand mode. Wear protective fire fighting clothing. Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self contained breathing apparatus. If not available, wear full chemical resistant clothing with breathing apparatus and fight fire from remote location. For PPE in post fire or non fire clean up situations, refer to relevant sections.

Hazardous combustion: Formed under fire conditions: Carbon Monoxide, Carbon Dioxide, Calcium Oxide products

## **Section 6. Accidental Release Measures**

Personnel precautions: Isolate area. Keep unnecessary and unprotected personnel from entering area. Spilled material may cause a slipping hazard on some surfaces. Use appropriate safety equipment.

### Methods and materials for containment and clean up

Spill: Contain spilled material if possible. Collect in suitable and properly labeled containers. Flush residue with plenty of water.

Environmental: Prevent large spills from entering into soil, ditches, sewers, waterways, and/or groundwater.

## **Section 7. Handling & Storage**

Precautions for safe: Ensure good ventilation/exhaustion at workplace. Wear tightly sealed goggles and rubber gloves.  
Handling

Advice on general occupational hygiene: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for storage: Store in a dry place. Protect from atmospheric moisture. Keep lid tightly closed. Keep separate from incompatible substances.

Incompatibilities/  
Materials to avoid: Organic materials, oils, and grease.

## **Section 8. Exposure Controls / Personal Protection**

Component	OSHA Final PEL TWA	OSHAL Final PEL STEL	OSHA Final PEL Ceiling
Particles not otherwise regulated (PNOR) 00-00-001	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	-----	-----

Appropriate engineering controls: Use local exhaust ventilation or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

### Individual protection measures

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, using the lavatory, or at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Wear safety glasses with side shields. For dusty operations or when handling solutions of this material, use chemical goggles.

Hand protection: Use gloves chemically resistant to this material. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposure. Examples of preferred glove barrier materials include: Neoprene, polyvinyl chloride, nitrile/butadiene rubber.

Body protection: Wear clean, body-covering clothing.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no exposure limits or guidelines, wear respiratory protection when adverse effects have been experienced or where indicated by risk assessment. In dusty or misty atmospheres, use an approved particulate respirator. Effective types of respirators include: HEPA N95.

## **Section 9. Physical and Chemical Properties**

Physical state: Solid

Color: White powder

Odor: Odorless

Odor threshold: No data available

pH: Not applicable to solids

melting point: 300° C (572°F)

Boiling point: Not applicable to solids

Flash point: NA

Burning time: NA

Burning rate: NA

Evaporation rate: NA

Flammability (solid/gas): NA

Lower and upper explosive (flammable) limits: NA

Vapor pressure: 2.2 x 10<sup>-4</sup> Pa @ 20°C

Vapor density: NA

Relative density: Not applicable to solids

Solubility: Readily soluble

Partition coefficient  
n-octanol/water: No data available  
Auto-ignition temp: NA  
Decomposition temp: >400°C  
SADT: NA  
Viscosity: NA

**Section 10. Stability & Reactivity**

Reactivity: No specific test data related to reactivity available for this product or its ingredients.  
Chemical stability: This product is stable at normal temperatures and pressures.  
Conditions to avoid: Avoid contamination by any source including metals, dust, organic materials  
Incompatible materials: Reactive or incompatible with the following: Alkalis, Combustible materials, reducing materials, organic materials, acids  
Hazardous: Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
decomposition products  
Hazardous polymerization: Will not occur.

**Section 11. Toxicological Information**

Information on toxicological effects  
Component toxicity data

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitric acid, ammonium Calcium salt 15245-12-2	500 mg/kg (rat)	2000 mg/kg (rat)	-----
Calcium Difomate 544-17-2	3050 mg/kg (rat)	>2000 mg/kg (rat)	>.67 mg/l (rat)

Potential Acute health effects:

Eye contact: Dust may cause severe eye irritation with corneal injury  
Inhalation: Dust may cause irritation to upper respiratory tract.  
Skin contact: Brief contact is essentially nonirritating to skin. Prolonged contact may cause skin irritation or burn.  
Ingestion: Low toxicity if swallowed. Small amounts swallowed incidentally as result of normal handling operations are unlikely to cause injury. Swallowing large amounts may cause local mucosal damage to esophagus and stomach. Swallowing may result in gastrointestinal irritation or damage.

Symptoms related to physical, chemical, and toxicological characteristics

Eye contact: Adverse symptoms may include:  
pain or irritation  
watering  
redness

conjunctival swelling  
cornea opacification

Inhalation: Irritation to upper respiratory tract

Skin contact: Irritation  
Abrasion from solid  
Erythema

Ingestion: Consumption of solids or hypertonic solutions can cause:  
Nausea  
Vomiting  
Increased thirst

Carcinogenicity: Not classified as carcinogen per GHS, NTP, IARC, or OSHA

Mutagenicity: Not classified as mutagen per GHS criteria.

## **Section 12. Ecological Information**

Aquatic Toxicity: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/LL50 > 100mg/L in the most sensitive species tested.

Nitric Acid, Ammonium calcium salt	LC50	Labeo Boga	48 hours, 447 mg/l
	LC50	Aquatic invertebrates – Daphnia	48 hours, >100 mg/L
	LC50	Aquatic Plants	72 hours, >100 mg/L
Calcium Difomate	EC50	Bacteria	>1000mg/L
	EC50	Daphnia Magna	48 hours, >1000 mg/L
	EC50	Pseudokirchnerella subcapitata	72 hours, >1000 mg/L
	LC0	Danio Rerio	48 hours, >1000 mg/L

Biodegradation: Material is inorganic and not subject to biodegradation.

Persistence: Material is readily biodegradable

Bioconcentration: No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is high (Koc between 0 and 50).

## **Section 13. Disposal Considerations**

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions, and any by-products should comply with the requirements of the environmental protection and waste disposal legislation and any regional, local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

## **Section 14. Transport Information**

Land Transport: US DOT 49 CFR 172.101 – Not regulated

Maritime Transport: Not regulated

Canadian Transportation of dangerous goods: Not regulated

## **Section 15. Regulatory Information**

US Federal Regulations:

OSHA Regulatory Status: Considered hazardous by OSHA Hazard Communication standard (29 CFR 1910.1200)

CERCLA sections: Not Regulated  
102a/103 Hazardous Substances

SARA EHS Chemical: Not Regulated  
(40 CFR 355.30)

SARA 311/312: Acute Health Hazard

EPCRA Section 313: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.  
(40 CFR 372.65)

California Prop. 65: This product is not listed, but it may contain impurities/trace elements known to the state of California to cause cancer.

US Inventory Status: TSCA: All components are listed or exempt  
TSCA 12(b): This product is not subject to export notification

Canadian Regulations: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this SDS contains all the information required by the Controlled Products Regulations.

## **Section 16. Other Information**

### History:

Date of issue: 6/1/15  
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Version: 1  
Prepared by: Illinois Products Corporation  
423 Joseph Drive  
South Elgin, IL 60177  
847-289-2800

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