Section 1. Identification

Product: HARD-N-FAST LIQUID
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

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric Acid, Ammonium Calcium salt</td>
<td>61-67</td>
<td>15245-12-2</td>
</tr>
<tr>
<td>Calcium Diformate</td>
<td>33-39</td>
<td>544-17-2</td>
</tr>
</tbody>
</table>

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.

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, reating 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

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

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

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA Final PEL TWA</th>
<th>OSHAL Final PEL STEL</th>
<th>OSHA Final PEL Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particles not otherwise regulated (PNOR)</td>
<td>15 mg/m³ (total)</td>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td>00-00-001</td>
<td>5 mg/m³ (respirable)</td>
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<td>--------</td>
</tr>
</tbody>
</table>

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:** Liquid
- **Color:** Straw
- **Odor:** Odorless
- **Odor threshold:** No data available
- **pH:** 9
- **Melting point:** Not Applicable to liquids
- **Boiling point:** approx 230°
- **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:** 7-15
- **Vapor density:** Same as water
- **Relative density:** 1.97-1.437
- **Solubility:** Readily soluble
Partition coefficient
n-octanol/water: No data available
Auto-ignition temp: NA
Decomposition temp: NA
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.

Hazardous polymerization: Will not occur.

Section 11. Toxicological Information

Information on toxicological effects
Component toxicity data

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric acid, ammonium Calcium salt</td>
<td>500 mg/kg (rat)</td>
<td>2000 mg/kg (rat)</td>
<td>------</td>
</tr>
<tr>
<td>15245-12-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Diformate</td>
<td>3050 mg/kg (rat)</td>
<td>&gt;2000 mg/kg (rat)</td>
<td>&gt;.67 mg/l (rat)</td>
</tr>
<tr>
<td>544-17-2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Nitric Acid, Ammonium calcium salt</th>
<th>LC50</th>
<th>Labeo Boga</th>
<th>48 hours, 447 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>Aquatic invertebrates – Daphnia</td>
<td>48 hours, &gt;100 mg/L</td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Aquatic Plants</td>
<td>72 hours, &gt;100 mg/L</td>
<td></td>
</tr>
<tr>
<td>Calcium Diformate</td>
<td>EC50</td>
<td>Bacteria</td>
<td>&gt;1000mg/L</td>
</tr>
<tr>
<td>EC50</td>
<td>Daphnia Magna</td>
<td>48 hours, &gt;1000 mg/L</td>
<td></td>
</tr>
<tr>
<td>EC50</td>
<td>Pseudokirchnerella subcapitata</td>
<td>72 hours, &gt;1000 mg/L</td>
<td></td>
</tr>
<tr>
<td>LC0</td>
<td>Danio Rerio</td>
<td>48 hours, &gt;1000 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

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
Maritime Transport: Not regulated
Canadian Transportation of dangerous goods: Not regulated

Section 15. Regulatory Information

US Federal Regulations:
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.
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
Date of previous issue: 1/1/13 (Formerly MSDS)
Version: 1
Prepared by: Illinois Products Corporation
423 Joseph Drive
South Elgin, IL 60177
847-289-2800

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