SAFETY DATA SHEET

Rapid Aid Product Codes
715, 716, 718, 31259, 31246, 312468, 31359, 31346, 91640

Issue Date: July 21, 2014

SECTION 1 - IDENTIFICATION

Identification: Instant Cold Pack
Chemical Product Name: Calcium Ammonium Nitrate
Synonyms: CAN/Nutramon
Emergency Telephone Information: Contact your Regional Poison Control Centre

SECTION 2 - HAZARDS IDENTIFICATION

Physical/Chemical Hazards:
Environmental Hazards: Harmful to aquatic organisms
Effect(s) of (over) Exposure: Slightly irritating to eyes, skin or respiratory tract
Symptom(s) of (over) Exposure:

Inhalation – shortness of breath, cough, irritating to respiratory tract
Ingestion – sore throat, abdominal pain, nausea and vomiting if more than 10 gram is ingested
Skin Contact – redness, tender skin
Eye contact – redness, pain

SECTION 3 - COMPOSITION/INFORMATION on INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS #</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Nitrate</td>
<td>6484-52-2</td>
<td>Maximum 78</td>
</tr>
<tr>
<td>Additional Information Contains:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium Nitrate</td>
<td>10377-60-3</td>
<td>N/A</td>
</tr>
<tr>
<td>Dolomite</td>
<td>16389-88-1</td>
<td>N/A</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

Emergency and First Aid Procedures:
Ingestion: Rinse mouth with plenty of water. Make victim drink plenty of water.
Do not induce vomiting. Get medical attention if more than 10 grams has been swallowed.
Inhalation: Remove victim to fresh air. Prevent exertion of affected person. Get medical attention.
Skin Contact: Wash area with water.
Eye Contact: Immediately wash out with plenty of water. Get medical attention.
SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing media suitable: water
Unusual Fire & Explosion Hazards: toxic fumes of oxides of nitrogen may be formed in the fire
Hazardous Thermal Decomposition and Combustion Products: toxic fumes of oxides of nitrogen
Protection of Fire Fighters: self contained breathing apparatus

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use appropriate protective clothing and equipment (see Section 8)
Environmental Precautions: The substance is biodegradable. Harmful to aquatic organisms.
Methods for Cleaning Up: Spilled material should be collected appropriately and wash remainder with plenty of water. If spilled material enters a water course, inform the local authority.

SECTION 7 - HANDLING AND STORAGE

Handling: Use appropriate protective clothing and equipment (see Section 8)
Storage: Store away from combustible material and reducing agents. Do not expose to high temperatures.
Packaging Materials: bulk, bags

SECTION 8 - EXPOSURE CONTROLS/PERSOAL PROTECTION

Engineering Measures: local exhaust, ventilation
Hygienic Measures: when using do not eat, drink or smoke
Personal Protection: none
Respiratory System: respiratory protection (dust mask, type P2)
Skin and Body: protective clothing
Hands: protective gloves
Eyes: safety goggles


SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: granules, dry
Color: brownish
Odor: odorless
Molecular Weight: not applicable
Boiling Point: not applicable
Melting Point: Approximately 169°C
 Decomposition Temperature: 220°C
 Bulk Density: 1000 – 1100kg/m³
 Solubility: 3.6±0.2 mm
 Solubility in Water: 190g/100ml (20°C)
 Flash Point: none
 Auto Ignition Temperature: not applicable
Lower Explosion Limit: not applicable
Upper Explosion Limit: not applicable
Freezing Point: not applicable

SECTION 10 - STABILITY AND REACTIVITY

Stability: stable
Conditions to Avoid: melts and decomposes when strongly heated.
Incompatibility (materials to avoid):
strong base, strong acid, organic materials, chromates, zinc, compounds by copper, nickel and cobalt
Hazardous decomposition or by-products:
calcium ammonium nitrate melts and decomposes when strongly heated, releasing toxic fumes (NOx)
Hazardous polymerization: will not occur

SECTION 11 - TOXICOLOGY INFORMATION

Chemical Name: Ammonium Nitrate
Acute Toxicity: not applicable
Oral: LD50 rat: 2300mg/kg
Dermal: LD50 rat: expected 2000mg/kg
Inhalation: 4hrs LC50 rat: expected 88mg/l
Eye Irritation: slight eye irritation
Skin Irritation: Very slight skin irritation
Sensitization: no skin sensitization
Chronic Toxicity: substance might lead to change in blood structure (formation of methaemoglobin)
Carcinogenicity: NTP: No NCI-lifetime study has been carried out
IARC: No IARC – monograph has been published
OSHA: Not a regulated carcinogen
Mutagenicity: no mutagenicity expected
Reproductive Toxicity: no reproductive toxicity expected
Epidemiological Data: epidemiological data indicates no effects in workers exposed to 10mg/m³ for a year or longer

SECTION 12 - ECOLOGICAL INFORMATION

Chemical Name: Ammonium Nitrate
Mobility: Highly water soluble. It is not absorbed by soil.
Persistence and Degradability: Readily biodegradable.
Bioaccumulative Potential: Log P 0. Therefore, no bioaccumulation potential.
Ecotoxicity: 96 h LC50 (for fish): 10-100mg/l
48h EC50 (for Daphnia): 10-100 mg/l
SECTION 13 - DISPOSAL CONSIDERATIONS

Responsibility of the receiver to have knowledge of national and local regulations.
Methods of Disposal: The substance is biodegradable. Disposal according to the local legislation.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Ammonium Nitrate Fertilizers
UN Number: n/a
Road/Rail/Inland: no specific regulations applicable
Waterways: no specific regulations applicable
Sea: no specific regulations applicable
Air:

SECTION 15 - REGULATORY INFORMATION

Responsibility of the receiver to have knowledge of national and local regulations
EC Classification:
Label Name: Not classified as a dangerous substance according to EC criteria.
Hazard Symbol: None
Risk Phrases: None
Safety Phrases: None
National Regulations: Readily Biodegradable
WGK (Germany): 1(DSM classification)
Listed on TSCA-Inventory: Yes (ingredients)
Listed on DSL-Inventory: Yes (ingredients)
Listed on AIDCS-Inventory: Yes (ingredients)
Listed on MITI-Inventory: Yes (ingredients)

SECTION 16 - OTHER INFORMATION

All other information given by or on behalf of DSM as to properties, specifications, use, etc. of the product is based on research, including literature and is believed reliable. DSM can however, not assume the responsibility therefore nor for the performance nor for the results obtained through the use of the products or information involved, nor for any damages that may be caused by or to the products or information.

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