

SAFETY DATA SHEET



Rapid Aid Product Codes

715, 716, 718, 31259, 31246, 31246B, 31359, 31346, 91640

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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

Hazardous Components (Specific Chemical Identity, Common Name)	CAS #	% by weight
Ammonium Nitrate	6484-52-2	Maximum 78
Additional Information Contains:		
Magnesium Nitrate	10377-60-3	N/A
Dolomite	16389-88-1	N/A

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.

Waste Disposal Method: Follow all Local, State and Federal Regulations.

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/PERSONAL 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

Waste Disposal Method: Follow all Local, State and Federal Regulations.

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 (NO_x)

Hazardous polymerization: will not occur

SECTION 11 - TOXICOLOGY INFORMATION

Chemical Name: Ammonium Nitrate

Acute Toxicity: *not applicable*

Oral: LD50rat: 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 methaemoglobine)

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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