

Material Safety Data Sheet

Calcium Ammonium Nitrate

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical product name: Calcium ammonium nitrate
Common chemical name: Synonyms: CAN/Nutramon
Company information: Choice Chemicals Ltd.
 Centre of City, No.249 Wuyi Road, Furong District,
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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

2. Composition/Information on Ingredients

| Name | CAS number | % by weight | Symbol | R phrases |
|------------------|------------|-------------|--------|-----------|
| ----- | ----- | ----- | ----- | ----- |
| Ammonium Nitrate | 6484-52-2 | max. 78 | — | — |

SECTION 3 - 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 4 - HAZARDS IDENTIFICATION

Ingestion: Rinse mouth with plenty of water. Make victim drink plenty of water. Do not induce

vomiting. Get medical attention if more than 10 gram has been swallowed

Inhalation: Remove victim to fresh air. Prevent exertion of affected person. Get medical attention.

Skin Contact: Wash 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 and explosion hazards: Toxic fumes of oxides of nitrogen may be formed in fire.

Hazardous thermal decomposition

and combustion products: Toxic fumes of oxides of nitrogen

Protection of fire-fighters: Self contained breathing equipment.

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 water 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.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL, PROTECTION

Engineering measures: Local exhaust, ventilation.

Hygienic measures: When using do not eat, drink or smoke.

Personal protection:

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. |
| Colour: | White |
| Odor: | Odorless. |
| Molecular weight: | Not applicable. |
| Boiling Point: | Not applicable. |
| Melting Point: | Approximately 169°C |
| Decomposition temperature: | > 220°C |
| Bulk density: | 1000 - 1100 kg/m ³ |
| Solubility: | 3,6 +-0,2 mm. |
| Solubility in water: | 190 g/100 ml (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.

Materials to avoid: Strong base, strong acid, organic materials, chromates, zinc, compounds by copper, nickel and cobalt.

Hazardous decomposition products: Calcium ammonium nitrate melts and decomposes when strongly heated, releasing toxic fumes (NO_x).

Hazardous polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Chemical name: Ammonium nitrate.

Acute toxicity:

Oral: LD50 rat: 2300 mg/kg.

Dermal: LD50 rat: expected > 2000 mg/kg.

Inhalation: 4 hrs LC50 rat: > 88 mg/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 regulated as a carcinogen.

Mutagenicity: No mutagenicity expected.

Reproductive toxicity: No reproductive toxicity expected.

Epidemiological data: Epidemiological data indicate no effects in workers exposed to 10 mg/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 - 100 mg/l. 48 h 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: none.

Road/Railway/Inland: No specific regulations applicable.

Waterways: No specific regulations applicable.

Sea: No specific regulations applicable.

Air: No specific regulations applicable.

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 (ChoiceChem classification)..
Listed on TSCA-inventory: Yes (ingredients).
Listed on DSL-inventory: Yes (ingredients).
Listed on AICS-inventory: Yes (ingredients).
Listed on MITI-inventory: Yes (ingredients).

SECTION 16 - OTHER INFORMATION

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