Material Safety Data Sheet

Product Code Numbers: 715, 716, 718, 718-b, 31259, 31246, 31246-b, 31359, 31346, 91640

Issue Date: March 1, 2012

Calcium Ammonium Nitrate

Conforms to ISO 11014-1 and 91/155/EC

1. Chemical Product and Company Identification

Chemical product name: Calcium ammonium nitrate Common chemical name: Synonyms: CAN/Nutramon Supplier's name: Supplier's address:

2. Composition/Information on Ingredients

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

Additional Information

| Contains: | |
|-----------|--|
| | |

| CAS number |
|------------|
| |
| 13446-18-9 |
| 16389-88-1 |
| |

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.

4. First Aid Measures

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.



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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.

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.

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.

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.

9. Physical and Chemical Properties

Appearance: Granules, dry. Colour: Brownish. Odor: Odorless. Molecular weight: Not applicable. Boiling Point: Not applicable. Melting Point: Approximately 169°C Decomposition temperature: > 220°C Bulk density: 1000 - 1100 kg/m³ 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.

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 (NOx).

Hazardous polymerization: Will not occur.

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

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.

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.

14. Transport Information

Proper shipping name: Ammonium nitrate fertilizers. UN number: Road/Railway/Inland: No specific regulations applicable. Waterways: No specific regulations applicable. Sea: No specific regulations applicable. Air:

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 AICS-inventory: Yes (ingredients). Listed on MITI-inventory: Yes (ingredients).

16. Other Information

All information given by or on behalf of DSM as to properties, specifications, use, etc. of the products is based on research, including literature and is believed reliable. DSM can however, not assume any responsibility therefore nor for performance nor for 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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