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Version 3.0
EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	CAN 27
Trade name	Nutramon
Chemical name	Calcium Ammonium Nitrate (27%N)
Product type	solid (Granules)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Fertilisers
Uses advised against	All other uses

1.3 Details of the supplier of the safety data sheet

OCI Nitrogen BV
Mijnweg 1
P.O. Box 601
6160 AP Geleen, The Netherlands
Tel: +31 (0) 46 7020111
www.ocinitrogen.com

info.agro@ocinitrogen.com

1.4 Emergency telephone number

UK National Health Service (NHS) call 111 or, in life-threatening emergencies, call 999

WAL National Health Service (NHS) call 0845 46 47

IE National Poisons Information Centre
+353 1 809 2566 or +353 1 837 9964 (only for healthcare professionals)

Manufacturer: Alert & Care Centre Chemelot (Geleen, The Netherlands)
+31 46 4765555 (24/7)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (1272/2008/EC)
Not classified.

2.2 Label elements

None.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature Mixture of: Dolomite and Ammonium nitrate.

Chemical name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH registration number
Ammonium nitrate	229-347-8	6484-52-2	~78	Oxid. Solid 3 H272 Eye Irrit. 2 H319	01-2119490981-27
Calcium magnesium-carbonate (Dolomite)	240-440-2	16389-88-1	~21	-	Not applicable

For the full text of the H-Statements mentioned in this section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice	When symptoms persist or in all cases of doubt seek medical advice.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur. Under fire conditions: SYMPTOMS MAY BE DELAYED (48 hours). Immediate medical attention is required.
Protection of first-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms	No acute and delayed symptoms and effects are observed. Inhalation of dust can cause irritation to the respiratory system. Under fire conditions: Effects of contact or inhalation may be delayed. (Difficulty breathing).
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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically. Large amounts Consult a specialist. Under fire conditions: Symptoms may be delayed (48 hours).
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Water.

Unsuitable Extinguishing Media Do not use: All other extinguishing media (For example: Dry powder, Foam, Sand). Do not attempt to smother the fire.

5.2 Special hazards arising from the substance or mixture

Special Hazard The product itself does not burn. Hazardous decomposition products formed under fire conditions: NH_4NO_3 (May intensify fire; oxidiser), Nitrogen oxides (NO_x), Ammonia.
Incompatible Materials: Oil, Combustible materials. Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit. Ventilate the area. Avoid breathing vapours, mist or gas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Do not breathe dust. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2 Environmental precautions

Should not be released uncontrolled into the environment.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Do not mix with sawdust and other combustible or organic substances. Dilute any contaminated or fine grained fertilizer with inert materials such as limestone/dolomiet, gypsum, sand or dissolve in water.

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid dust formation. Unnecessary exposure to the atmosphere (hygroscopic product). Do not breathe dust. Avoid contact with: Combustible materials (Oil, Grease, Fuel), Incompatible Materials (See section 10.5). Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep away from direct sunlight. Keep away from heat and sources of ignition, Combustible material, Organic materials, Incompatible Materials (See section 10.5). Packaging: PVC, Polyethylene, Steel (None: Aluminium, Zinc, copper).

7.3 Specific end use(s)

Exposure scenario Not available.

Other information Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits Contains no substances with occupational exposure limit values.

Recommended monitoring procedures No information available.

Derived No Effect Level (DNEL)

For: Workers.

Chemical name	Long-term exposure - Local effects - Inhalation	Long-term exposure - Local effects - Dermal	Acute / short-term exposure - Local effects - Inhalation	Acute / short-term exposure - Local effects - Dermal
Ammonium nitrate	37.6 mg/m ³	21.3 mg/m ³		

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Marine water	Intermittent release	Sewage treatment plant	Freshwater sediment	Marine sediment	Soil	Oral
Ammonium nitrate	0.45 mg/L	0.045 mg/L	4.5 mg/L	18 mg/L				

8.2 Exposure controls

Appropriate Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye Protection

Safety glasses with side-shields.

Hand Protection

Protective gloves. Butyl rubber, Neoprene, Leather gloves. Glove thickness: 5 mil. Break through time: 4 - 8 hours.

Skin and Body Protection

Long sleeved clothing.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment (EN 143, EN 149).

Recommended Filter Type

P2

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Environmental exposure controls Should not be released uncontrolled into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state @20°C	Solid
Appearance	Granules
Colour	Brown with orange
Odour	Odourless
pH	> 4.5 (10% w/w)
Melting/freezing point	+/- 170 °C
Boiling point/boiling range	Decomposes
Flash point	Not applicable (Not combustible)
Evaporation rate	Not applicable
Flammability (solid, gas)	Not combustible
Flammability Limits in Air	Not applicable
Vapour pressure	Negligible
Vapour density	Not applicable
Relative density	Not applicable
Solubility	
Water solubility	>100 g/l (@ 20°C)
Partition coefficient (n-octanol/water)	Not applicable
Autoignition temperature	Not combustible
Decomposition temperature	>200 °C
Viscosity, dynamic	Not applicable
Explosive properties	The fertilizer has a high resistance to detonation. This resistance is decreased by the presence of contaminants and/or high temperatures. Heating under strong confinement (e.g. in ducts) may lead to a violent reaction or explosion, especially if there is contamination by some of the substances mentioned under section 10.
Oxidising properties	Not oxidizing

9.2 Other information

Density	No information available
Bulk Density	+/- 1040 kg/m ³

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous decomposition products formed under fire conditions.

10.4 Conditions to avoid

To avoid thermal decomposition, do not overheat. Temperatures above 170 °C. Keep away from direct sunlight, Heat, flames and sparks. Unnecessary exposure to the atmosphere (hygroscopic product).

10.5 Incompatible materials

Combustible materials, Reducing agents, Acids, Alkalis, Sulphur, Chlorates, Chlorine, Chromates, Nitrites, permanganates, powdered metal, Zinc, copper, Nickel, Cobalt compounds, Aluminium.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: NH_4NO_3 (May intensify fire; oxidiser), Nitrogen oxides (NO_x), Ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Ingestion	No known effect.
Skin Contact	No known effect.
Inhalation	No known effect.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium nitrate	2950 mg/kg (Rat, OECD 401)	> 5000 mg/kg (Rat, OECD 402)	88.8 mg/L (Rat, 4h)

Skin Corrosion/Irritation No known effect.

Serious eye damage/irritation Non-irritating. Product classification based on report "Assessment of ammonium nitrate as eye irritant for classification purposes" (Fertilizers Europe, 14 July 2011). OECD 405 In vivo (2004), In vivo (2010-2011), OECD 437 in vitro (2011).

Respiratory or skin sensitisation No known effect (OECD 429, with $\text{Mg}(\text{NO}_3)_2$, $\text{Ca.xH}_3\text{N.xHNO}_3$, NaNO_3).

Germ Cell Mutagenicity Not known to cause heritable genetic damage. OECD 471 / OECD 473, with $\text{Ca.xH}_3\text{N.xHNO}_3$: Negative. OECD 476, with NaNO_3 : Negative.

Carcinogenicity Contains no ingredient listed as a carcinogen. with $(\text{NH}_4)_2\text{SO}_4$: NOAEL =256 mg/kg bw/d, (OECD 453 52w).

Reproductive Toxicity NOEL Oral (with KNO_3): = >1500 mg/kg bw/d (OECD 422, 28d).

STOT-single exposure No known effect.

STOT-repeated exposure NOAEL inhalation: >=185 mg/m³ (OECD 412, 2w).

Aspiration Hazard No known effect.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Contains no substances known to be hazardous for the environment.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Micro-organisms	Toxicity to daphnia and other aquatic invertebrates
Ammonium nitrate	EC50: >1700 mg/L 10d (seawater, KNO ₃)	LC50: 95-102 mg/L 48h Cyprinus carpio static LC50: 447 mg/L 48h	EC50: >1000 mg/L 3h NOEC: 180 mg/L (OECD 209, NaNO ₃)	EC50: 490 mg/L 48h (KNO ₃)

12.2 Persistence and degradability

Readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

Chemical name	Log P _{ow}	Bioconcentration factor (BCF)
Ammonium nitrate	-3.1	

12.4 Mobility in soil

Not expected to adsorb on soil.

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products

Where possible recycling is preferred to disposal. If recycling is not practicable, dispose of in compliance with local regulations. Should not be released uncontrolled into the environment.

Contaminated Packaging

Where possible recycling is preferred to disposal (Only if packaging material is designed or intended for reuse). Clean packaging before reuse. If recycling is not practicable, dispose of in compliance with local regulations. Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

According to: ADR, RID, ADN, IMDG, IATA/ICAO.

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Not regulated.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions on use

Suspicious transactions, sales to unlicensed third parties and theft should be reported to the police immediately.

REACH (1907/2006), Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Applicable, Table 58.

REACH (1907/2006), Annex XIV - List of substances subject to authorisation: Not applicable.

Other Regulations

None.

15.2 Chemical safety assessment

Not available.

SECTION 16: OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

H272 - May intensify fire; oxidiser

H319 - Causes serious eye irritation

Abbreviations and acronyms

EC: European Commission

REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances

STOT: Specific Target Organ Toxicity

PBT: Persistent, Bioaccumulative, Toxic

vPvB: very Persistent and very Bioaccumulating

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations for the International Transport of Dangerous Goods by Rail)

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

IMDG: International Maritime Dangerous Goods Code

ICAO: International Civil Aviation Organization

Revision note

Restrictions on use. Format updated in compliance with European REACH and CLP regulations.

Training Advice

Workers must be trained in the proper use and handling of this product as required under applicable regulations.

Disclaimer

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