

# Safety Data Sheet

according to Regulation (EC) No. 453/2010



## Calcium Nitrate Fertigation Grade

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

**Van Iperen Calcium Nitrate Fertigation Grade**

Identification number: not

CAS number: not

ES (EINECS) number: not

Registration name: product is a mixture

Registration number: product is a mixture

Other names: Nitrogen-calcium fertilizer, nitrato de calico

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

##### Relevant identified uses:

Nitrogen-calcium fertilizer for a regenerative fertilization of winter crops and in particular for additional fertilization during the vegetation time.

##### Uses advised against:

not known

#### 1.3 Details of the supplier of the safety data sheet

Van Iperen International BV

Smidsweg 24

3273 LK Westmaas - Nederland

T +31 (0) 186 578 888 - F +31 (0) 186 573 452

[info@iperen.com](mailto:info@iperen.com) - [www.vaniperen.com](http://www.vaniperen.com)

#### 1.4 Emergency telephone number

In case of emergency contact the national emergency telephone number: UK and Ireland: 112 or 999

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008**

Eye Damage 1; H318

Acute Tox. 4; H302

#### 2.2 Label elements:

**Labeling according to Regulation (EC) No 1272/2008**

**Hazard pictograms**



##### Signal word:

Danger

##### Components of the mixture to be placed on the label:

Contains calcium nitrate.

##### Hazard statements:

H318 - Causes serious eye damage.

H302 - Harmful if swallowed.

##### Precautionary statements:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338-IFINEYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3 Other hazards:

**The most important adverse impacts on human health at using the substance or mixture:**

Depending on concentration, the dust from the granulated fertilizer irritates the skin, air passages and eyes. The irritating effect is increased by the influence of humidity or due to sweating.

**The most important adverse environmental impacts when using the substance or mixture:**

The product has an adverse impact on the oxygen balance in waters.

**The most important physical and chemical adverse when using the substance or mixture:**

not known

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Full text of classifications and hazard statements are given in Section 16.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Calcium nitrate $\text{Ca}(\text{NO}_3)_2$

Content: max. 77 %

Identification number: not

CAS number: 10124-37-5

ES (EINECS) number: 233-332-1

Registration name: calcium nitrate

Registration number: 01-2119495093-35-0004

##### Classification according to 1272/2008:

Oxid. Solid 3; H272 Eye Damage 1; H318 Acute Tox. 4; H302

##### Ammonium nitrate $\text{NH}_4\text{NO}_3$

Content: < 9 %

Identification number: not

CAS number: 6484-52-2

ES (EINECS) number: 229-347-8

Registration name: ammonium nitrate

Registration number: 01-2119490981-27-0022

##### Classification according to 1272/2008:

Oxid. Solid 3; H272 Eye Irrit. 2; H319

Concentration limits are 80% < C ≤ 100 %: Eye Irrit. 2; H319

Full text of classifications and hazard statements are given in Section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures:

If health problems appear or in case of doubts, seek always medical aid and pass to the doctor all information mentioned in this safety data sheet.

##### If breathed in:

Stop working and go for fresh air.

##### At contact with skin:

Remove the contaminated clothing, quickly wash off with a sufficient amount of water. Later wash the struck skin with water and soap, thoroughly but without a big mechanical irritation.

##### At contact with eyes:

As quickly and as carefully as possible rinse both conjunctival sacs with a stream of clean water and seek a medical assistance; if the struck person wears eyelenses these must be removed, prior to the rinsing.

##### At ingestion:

Immediately after the ingestion drink small amount (0,2l) of lukewarm water. Never evoke vomiting. Seek a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Depending on concentration, the dust from the granulated fertilizer irritates the skin, air passages and eyes. The irritating effect is increased by the influence of humidity or due to sweating.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

At ingestion or with contact with eyes seek a doctor.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media:

##### Proper extinguishing agents:

It is neither a fire hazardous nor an explosive substance and therefore the extinguishing measures are to be focused on the surroundings of the fire.

##### Inproper extinguishing agents:

full stream of water, extinguishing powders

#### 5.2 Special hazards arising from the substance or mixture:

not known

#### 5.3 Advice for firefighters:

Isolating breathing device, protective intervention clothes

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Protecting clothes, goggles, protecting gloves, secure a venting, do not eat, drink and smoke; in case of overlimit dust concentrations use a respirator against dust.

#### 6.2 Environmental precautions:

Clean the contaminated space as quickly as possible, avoid a contamination of underground as well as surface water.

#### 6.3 Methods and material for containment and cleaning up:

Liquidation in a dryway, for the disposal, we recommend to utilize composting plants or biodegradation are as (nutrients).

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### 6.4 Reference to other sections:

Individual protection measures in section 8. Disposal considerations in section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

At manipulation, observe the principles of personal hygiene, minimize the dustiness, do not eat, drink and smoke. Keep order, spilled material upon a firm surface can cause sliding.

### 7.2 Conditions for safe storage, including any incompatibilities:

The fertilizer is to be stored in bulk, in piles up to 6m height, distant from each other min. 2m, or in departments (boxes). The piles and the departments must be signed with the fertilizer name. A packed fertilizer is to be stored in bags, piled one upon the other up to a height of max. 1,5m or upon pallets up to a height of max. 3,5m. It must be stored upon the floor with an impermeable surface and with a protection from a nitrate corrosion. It must be protected from a direct solar radiation and a radiant heat, otherwise a destruction of pellets and a hardening of the fertilizer occurs. It is stored separately from other fertilizers and protected from contamination. The storage space must be secured against penetration of humidity. It is recommended to cover the stored fertilizer with PE tarpaulin.

### 7.3 Specific end use(s):

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters:

Exposure limit for fertilizer dust is not determined - recommended value = 10 mg/m<sup>3</sup>.

### 8.2 Exposure controls:

The dust concentration in the atmosphere must be kept on a low level as possible by means of properly designed technical tools (local venting, local exhaust etc.).

#### Protection of respirator organs:

In case of nonobservance of specified concentration limits use respirator against dust.

#### Protection of eyes:

protective goggles

#### Protection of hands:

protective gloves

#### Protection of the whole body:

twilled clothing

#### Further data including the general hygienic measures:

After the work wash your hands with water and soap and treat the skin with a reparation cream.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

State at 20°C a 101,3 kPa: solid

Colour: white to ochre hygroscopic granules of size between 2 and 5 mm

Smell: odourless

Odour threshold: undetermined

pH at 20°C (10% solution): 5 - 7

Melting temperature at 101,3 kPa: undetermined

Boiling temperature at 101,3 kPa: undetermined

Inflammation point: undetermined

Inflammability: inflammable

Explosion limits: not explosive

Vapour pressure at 20°C: undetermined

Vapour density: undetermined

Density at 20°C: undetermined

Solubility in water: easy soluble

Partition coefficient: undetermined

Auto-ignition temperature: undetermined

Decomposition temperature: undetermined

Viscosity at 20°C: undetermined

Explosive properties: not

Oxidising properties: undetermined

### 9.2 Other information:

The fertilizer is strongly hygroscopic.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Stable under normal conditions.

### 10.2 Chemical stability:

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Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

Reacts with strong alkali to form ammonia.

### 10.4 Conditions to avoid:

It is dangerous to work with an openfire or to weld in the fertilizer storage places. At these works, it is necessary to avoid a fall-out of glowing scale upon the fertilizer.

### 10.5 Incompatible materials:

inflammable materials

### 10.6 Hazardous decomposition products:

nitrogen oxides, ammonia

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

Depending on concentration, the dust from the granulated fertilizer irritates the skin air passages and eyes. The irritating effect is increased by the influence of humidity or due to sweating.

Classification was derived from the properties of components the mixture according to Regulation (EC) No 1272/2008

#### Acute toxicity:

Harmful if swallowed.

#### Skin corrosion/irritation:

Based on the available data do not meet the criteria for classification.

#### Serious eye damage/irritation:

Causes serious eye damage

#### Respiratory or skin sensitisation:

Based on the available data do not meet the criteria for classification.

#### Germ cell mutagenicity:

Based on the available data do not meet the criteria for classification.

#### Carcinogenicity:

Based on the available data do not meet the criteria for classification.

#### Toxicity for reproduction:

Based on the available data do not meet the criteria for classification.

#### STOT - single exposure:

Based on the available data do not meet the criteria for classification.

#### STOT - repeated exposure:

Based on the available data do not meet the criteria for classification.

#### Inhalation toxicity:

Based on the available data do not meet the criteria for classification.

## SECTION 12: Ecological information

Classification was derived from the properties of components the mixture according to Regulation(EC)No 1272/2008

### 12.1 Toxicity:

Based on the available data do not meet the criteria for classification.

### 12.2 Persistence and degradability:

undetermined

### 12.3 Bioaccumulative potential:

Study not made. Watersoluble mixture. Such a mixture has a low potential for bioaccumulation.

### 12.4 Mobility in soil:

undetermined

### 12.5 Results of PBT and vPvB assessment:

Is not PBT and vPvB.

### 12.6 Other adverse effects:

The product has an adverse impact on the oxygen balance in waters.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:

#### Ways of disposal of product:

Liquidation in a dry way, for the disposal, we recommend to utilize composting plants or biodegradation areas (nutrients).

#### Ways of disposal of contaminated packaging:

Cleaned PE package is recyclable.

#### Further data:

The disposal must proceed in accordance with valid regulations.

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## Calcium Nitrate Fertigation Grade

### SECTION 14: Transport information

#### Terrestrial transport (ADR/RID):

It is not a subject to regulations ADR/RID/IMDG code.

**14.1 UN number:** not

**14.2 UN proper shipping name:** not

**14.3 Transport hazard class(es):** undetermined

**14.4 Packing group:** undetermined

**14.5 Environmental hazards:** Product is not classified as environmentally hazardous substance according to the ADR/RID/IMDG Code.

**14.6 Special precautions for user:** The packed product can be transported by vehicles, railway carriages and ships.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC:** not available

### SECTION 15: Regulatory information

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

European agreement concerning the international carriage of dangerous goods (ADR)

Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council (CLP)

#### 15.2 Chemical safety assessment:

For compounds is made chemical safety report.

### SECTION 16: Other information

#### Explanations to shortcuts, list of relevant risk phrases and hazard statements

PBT - Hardly decomposable, bioaccumulative and toxic substances.

vPvB - Very hardly decomposable and very bioaccumulative substances.

Acute Tox. 4 - acute toxicity, category 4

Eye Dam. 1 - serious eye damage, category 1

Ox. Sol. 3 - oxidising solid, category 3

Eye Irrit. 2 - eye irritation, category 2

H272 - May intensify fire; oxidiser.

H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338-IFINEYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In this revision was changed appearance of the Safety datasheet and supplemented by sections 3 and 14

#### Company disclaimer

*The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.*