

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

### 1.1. Product identifier

Product form	: Substance
Trade name	: Calanit
EC-No.	: 239-289-5
CAS-No.	: 15245-12-2
REACH registration No	: 01-2119493947-16
Type of product	: Fertilizer
Formula	: $\text{Ca.xH}_3\text{N.xHNO}_3$
Synonyms	: calcium ammonium nitrate / Nitrates, inorganic, n.o.s. / nitric acid, ammonium calcium salt
Product group	: Raw material
BIG No	: 37687

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

#### 1.2.1. Relevant identified uses

Main use category	: Fertilisers
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: Agriculture, forestry, fishery
Function or use category	: Fertilisers

#### 1.2.2. Uses advised against

Restrictions on use	: None known
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### 1.3. Details of the supplier of the safety data sheet

Anorel NV N.V.  
 Lintsesteenweg 632  
 2540 Hove – Belgium  
 T +3234880233  
[anorel@anorel.net](mailto:anorel@anorel.net) - [www.anorel.net](http://www.anorel.net)

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090	+356 2545 6508	
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Serious eye damage/eye irritation, Category 1	H318
Full text of H- and EUH-statements: see section 16	

# Calanit

## Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes serious eye damage.

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

Precautionary statements (CLP)

: P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

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

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

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

P310 - Immediately call a POISON CENTER or doctor.

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%
Calcium Ammonium Nitrate 15,5 %	CAS-No.: 15245-12-2 EC-No.: 239-289-5 REACH-no: 01-2119493947-16	100

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

: Rinse with water. Wash skin with plenty of water.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Consult an ophthalmologist if irritation persists. Do not apply (chemical) neutralizing agents. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion

: Rinse mouth out with water. Give water to drink if victim completely conscious/alert. Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Call a poison center or a doctor if you feel unwell.

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## Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

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

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
Symptoms/effects after skin contact	: No data available.
Symptoms/effects after eye contact	: May cause slight irritation. Serious damage to eyes.
Symptoms/effects after ingestion	: None known.
Chronic symptoms	: None known.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: None known.

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

Fire hazard	: Not combustible.
Explosion hazard	: No reliable data available.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Advice for firefighters

Precautionary measures fire	: Keep upwind. Evacuate area.
Firefighting instructions	: Dilute toxic gases with water spray. Fight fire with normal precautions from a reasonable distance. Prevent fire fighting water from entering the environment. Contain the extinguishing fluids by bunding.
Protection during firefighting	: Compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment	: Gloves. Safety glasses. Protective clothing.
Emergency procedures	: Ventilate spillage area. Mark the danger area. No open flames, no sparks, and no smoking. Wash contaminated clothes. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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### 6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas.

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

For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Mechanically recover the product. Large spills: scoop solid spill into closing containers. Minimise generation of dust. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

# Calanit

## Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Comply with applicable regulations. Remove/Take off immediately all contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Storage conditions : Store in a well-ventilated place. Keep cool.
- Storage temperature : 15 – 20 °C
- Heat and ignition sources : Keep away from ignition sources. Heat sources.
- Information on mixed storage : Keep away from : combustible materials. Reducing agents. Organic materials.
- Storage area : Store in a dry area. Store in a well-ventilated place. Store at ambient temperature. Meet the legal requirements.
- Special rules on packaging : Clean. Store in a closed container. Keep only in original container. watertight. correctly labelled.
- Packaging materials : Polyethylene.

#### 7.3. Specific end use(s)

Fertilizer.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

###### Calanit (15245-12-2)

###### DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	13.9 mg/kg bodyweight/day
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Long-term - systemic effects, inhalation	98 mg/m <sup>3</sup>
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###### PNEC (STP)

PNEC sewage treatment plant	18 mg/l
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##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station.

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According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

**Eye protection:**

In case of dust production: protective goggles. Safety glasses

#### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Gloves

**Other skin protection**

**Materials for protective clothing:**

No reliable data available

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**

Dust production: dust mask with filter type P2

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Colour	: White.
Appearance	: Granulate.
Odour	: odourless.
Odour threshold	: Not available
Melting point	: 94 °C
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
pH	: 5 – 7
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Soluble in water. Water: 144 g/100ml
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available

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## Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Density : 1100 kg/m<sup>3</sup>  
Relative density : Not applicable  
Relative vapour density at 20 °C : Not applicable  
Particle size : Not available

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with combustible materials: risk of spontaneous ignition. On heating/burning: release of toxic and corrosive gases/vapours nitrous vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

Calcium Ammonium Nitrate 15,5 % (15245-12-2)	
LD50 oral rat	2000 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	: Not classified pH: 5 – 7

Calcium Ammonium Nitrate 15,5 % (15245-12-2)	
pH	5 – 7
Serious eye damage/irritation	: Causes serious eye damage. pH: 5 – 7

Calcium Ammonium Nitrate 15,5 % (15245-12-2)	
pH	5 – 7
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified

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## Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

### Calanit (15245-12-2)

Viscosity, kinematic	Not applicable
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### Calcium Ammonium Nitrate 15,5 % (15245-12-2)

Viscosity, kinematic	Not applicable
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## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Ecology - air	: Not dangerous for the ozone layer.
Ecology - water	: May cause eutrophication at very low concentration. water pollutant (surface water). No data available on ecotoxicity.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### Calcium Ammonium Nitrate 15,5 % (15245-12-2)

LC50 - Fish [1]	447 mg/l
EC50 - Crustacea [1]	> 100 mg/l

### 12.2. Persistence and degradability

### Calcium Ammonium Nitrate 15,5 % (15245-12-2)

Persistence and degradability	Biodegradability in water: no data available.
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### 12.3. Bioaccumulative potential

### Calcium Ammonium Nitrate 15,5 % (15245-12-2)

Bioaccumulative potential	No bioaccumulation data available.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not discharge into surface water.
Additional information	: LWCA (the Netherlands): KGA category 05. Hazardous waste according to Directive 2008/98/EC.
European List of Waste (LoW) code	: 16 05 06* - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

**SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

**14.6. Special precautions for user****Overland transport**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

**Inland waterway transport**

Not regulated

**Rail transport**

Not regulated

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

# Calanit

## Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

###### REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

###### REACH Annex XIV (Authorisation List)

Calanit is not on the REACH Annex XIV List

###### REACH Candidate List (SVHC)

Calanit is not on the REACH Candidate List

###### PIC Regulation (Prior Informed Consent)

Calanit is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

###### POP Regulation (Persistent Organic Pollutants)

Calanit is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

###### Ozone Regulation (1005/2009)

Calcium Ammonium Nitrate 15,5 % is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

###### VOC Directive (2004/42)

VOC content : 0 %

###### Explosives Precursors Regulation (2019/1148)

Contains substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

###### ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Calcium ammonium nitrate	15245-12-2	ex 3102 60 00	ex 3824 99 96

Please see [https://ec.europa.eu/home-affairs/system/files/2021-11/list\\_of\\_competent\\_authorities\\_and\\_national\\_contact\\_points\\_en.pdf](https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf)

###### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

##### 15.1.2. National regulations

###### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water.  
WGK remark : Internal classification water polluting based on standard worst-case evaluation points due to insufficient data.  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

###### Netherlands

Waterbezwaarlijkheid : 5 - Very toxic to aquatic organisms  
SZW-lijst van kankerverwekkende stoffen : The substance is not listed  
SZW-lijst van mutagene stoffen : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed  
SZW-lijst van reprotoxische stoffen – : The substance is not listed  
Vruchtbaarheid :  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

## Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Transport document description (IMDG)		
	Transport document description (IMDG)		
2.1		Modified	GHS02 removed GHS07 added
14.2	Transport document description (ADR)		

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet

# Calanit

## Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

### Abbreviations and acronyms:

vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H318	Causes serious eye damage.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.