



# Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

**Product Name** 20 - 06 - 06 + 2MgO + TE (DAXSQMVitasCadiz00156)  
**Document Code/Version:** 095f/01-EC  
**Date of issue:** September 2013 **Supersedes:** ----

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

**1.1. Product identifier** 20 - 06 - 06 + 2MgO + TE (DAXSQMVitasCadiz00156)

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

1.2.1. Identified uses:

Industrial use for the formulation of preparations

Sector of uses [SU]: 3/10

Process categories [PROC]: 1/2/3/5/8a/8b/9/13/15

Environmental release categories [ERC]: 2

Professional use for formulation of preparations and end-use

Sector of uses [SU]: 22

Process categories [PROC]: 2/8a/8b/9/11/15/19

Environmental release categories [ERC]: 8b/8e

1.2.2. Uses advised against:

None

**1.3. Details of the supplier of the safety data sheet**

**Supplier** SQM Iberian  
C/ Provença, 251 Principal 1<sup>a</sup>  
080031 Barcelona, Spain  
**Telephone** +34 934.877.806  
**Fax** +34 934.872.344  
**E-mail (competent person)** product\_safety@sqm.com

**1.4. Emergency Telephone Number**

Belgium	Centre Anti-Poisons/Antigifocentrum	(+32) 70 245 245
France	Centre Antipoisons - Centre de Pharmacovigilance	(+33) 4 72 11 69 11
Germany	Giftinformationszentrale Göttingen	(+49) 551 19240
Ireland	National Poisons Information Centre	(+353) 1 8379964
Italy	Centro antiveneni	(+39) 02 66 10 10 29
Netherlands	National Poisons Information Centre	(+31) 30 274 88 88
Norway	National Poison Information Centre	(+47) 22 59 13 00
Spain	Servicio de Información Toxicológica	(+34) 91 562 04 20
Portugal	Centro de Informação Antivenenos	(+351) 21 330 3284
United Kingdom	UK National Poisons Emergency	(+44) 870 600 6266

## SECTION 2: Hazards identification

**2.1. Classification of the mixture**

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Hazard classes and Hazard categories Hazard statements

Eye Irritation Cat. 2 H319

**Classification according to Directive 1999/45/EC**

Categories of danger R-Phrases

Irritant R36

*Full text of R-phrases: see section 16.*

**2.2. Label elements**

**Hazard pictograms**



**Signal word**

Warning

**Hazard Statements**

H319 Causes serious eye irritation.



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## Precautionary Statements

Wash hands thoroughly after handling. Wear eye protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## 2.3. Other hazards

This mixture does not contain ingredients that are assessed to be a PBT or a vPvB

## SECTION 3: Composition/information on ingredients

This product is to be considered as a mixture/preparation

Substance name	CAS No	EC No	Concentration (%)	REACH Registration Number
Ammonium nitrate	6484-52-2	229-347-8	10 - 30	01-2119490981-27-xxxx
Ammonium nitrate:				
Classification according to Directive 67/548/EEC:				Xi, R36
Classification according to Regulation (EC) No 1272/2008:				Ox. Sol. 3, H272/Eye Irrit. 2, H319
<i>Full text definitions R-phrases and H-statements, refer to section 16.</i>				

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of persisting adverse effects consult a physician.

Never give anything by mouth to an unconscious person or a person with cramps.

#### In case of inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention for any breathing difficulty.

#### In case of skin contact

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

#### In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### In case of ingestion

Rinse mouth and drink plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell.

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

The following symptoms may occur:

In case of inhalation	Irritation to respiratory tract
In case of skin contact	May cause redness or irritation
In case of eye contact	Causes serious eye irritation
In case of ingestion	Ingestion of large amounts may cause:                      Gastrointestinal disturbances

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:                      Use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.

Unsuitable material:                                      None, but attention should be paid to compatibility with chemicals surrounding.

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

Thermal decomposition can lead to the escape of toxic/corrosive gases and vapours.

Thermal decomposition products: refer to section 10.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.



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## SECTION 6: Accidental release measures

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

Provide adequate ventilation. Wear personal protective equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

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

Take up mechanically, placing in appropriate containers for disposal or recovery.

Unsuitable material for taking up: Do not absorb in saw-dust or other combustible absorbents.

### 6.4. Reference to other sections

Personal protective equipment (Section 8)

## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Avoid generation of dust. Provide adequate ventilation. Wear personal protective equipment.

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

Keep away from flammable, combustible and reducing materials/substances

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

Keep/store only in original container. Store in a well-ventilated place. Keep container tightly closed.

Do not store together with: Combustible, flammable, reducing materials/substances

### 7.3. Specific end uses

Not restricted.

## SECTION 8: Exposure controls / Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

No specific occupational exposure limit for any of the ingredients.

DNEL/DMEL and PNEC Values (ammonium nitrate)

Workers (industrial/professional):

DNEL Human, dermal, long term (repeated): 20.8 mg/kg/day (systemic)

DNEL Human, inhalation, long term (repeated): 36.7 mg/m<sup>3</sup> (systemic)

Consumer

DNEL Human, dermal, long term (repeated): 12.5 mg/kg/day (systemic)

DNEL Human, inhalation, long term (repeated): 10.9 mg/m<sup>3</sup> (systemic)

DNEL Human, oral, long term (repeated): 12.5 mg/kg bw/day (systemic)

PNEC Environment, freshwater, continuous: 0.45 mg/L

PNEC Environment, marine water, continuous: 0.045 mg/L

PNEC Environment, aqua, intermitent releases: 4.5 mg/L

PNEC Environment,sewage treatment plant, continuous: 18 mg/L

### 8.2 Exposure controls

#### Engineering control measures

Provide adequate ventilation to keep low dust environment.

#### Personal protection equipment

Eye/face protection Safety glasses

Skin protection Nitrile rubber gloves, work clothes

Respiratory protection Product/task appropriate respiratory protection, when engineering controls are not sufficient to keep low dust environment.

#### Environmental exposure control

Do not allow to enter into surface water or drains.



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## Risk Management Measures related to physico-chemical hazard

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

## Hygiene and good practice advice

Adequate containment of the product. Minimise number of staff exposed. Segregation of the emitting process. Effective contaminant extraction. Minimisation of manual phases. Avoidance of contact with contaminated tools and objects. Regular cleaning of equipment and work area. Management/supervision in place to check that the risk management measures are being used correctly and occupational conditions followed. Training for staff on knowledge on chemical behaviour of the substance and good practice.

## SECTION 9: Physical and chemical Properties

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

Appearance	Solid, blue
Odour	Odourless
Odour Threshold	Not applicable
pH value	Not available for the mixture
Melting point / freezing point	Not available for the mixture
Boiling temperature / boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not available for the mixture
Flammability	Not flammable
Explosion/Flammability limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not available for the mixture
Relative Density	Not available for the mixture
Solubility	Not available for the mixture
Partition coefficient n-octanol /water	Not applicable
Auto Ignition temperature (AIT)	Not applicable
Decomposition temperature (°C)	Not available for the mixture
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidising properties	Not oxidising

### 9.2. Other information

None

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored according to provisions.

### 10.2. Chemical stability

Stable under normal storage and temperature conditions.

### 10.3. Possibility of hazardous reactions

None identified

### 10.4. Conditions to avoid

Keep away from flammable, combustible and reducing materials/substances.

### 10.5. Incompatible materials

Flammable, combustible and reducing substances under specific conditions.

### 10.6. Hazardous decomposition products

Thermal decomposition products: Mainly nitrous oxides (NO<sub>x</sub>), potassium oxide, phosphorous oxides, ammonia.



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## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

There is no data for the mixture itself.

		Ammonium nitrate
Acute oral toxicity	LD50:	2950 mg/kg bw
Acute dermal toxicity	LD50:	> 5000 mg/kg bw
Acute inhalation toxicity	LC50:	> 88.8 mg/m <sup>3</sup>
Assessment / classification:		Based on available data, the classification criteria are not met

#### Skin corrosion/irritation

There is no data for the mixture itself.

		Ammonium nitrate
Equivalent/similar to OECD guideline 404		non-irritant.
Assessment / classification:		Based on available data, the classification criteria are not met

#### Serious eye damage/irritation

There is no data for the mixture itself.

		Ammonium nitrate
OECD Guideline 405/EU B.5		irritant
Assessment / classification:	H319	Causes serious eye irritation.

#### Respiratory or skin sensitisation

There is no data for the mixture itself.

		Ammonium nitrate
OECD Guideline 429/EU B.42		not sensitising.
Respiratory sensitisation		No information available
Assessment / classification:		Based on available data, the classification criteria is not met

#### Germ cell mutagenicity / Genotoxicity

The product does not contain ingredients classified as germ cell mutagens.

		Ammonium nitrate
Bacterial (Ames Test)		Negative
Chromosomal aberrations		Negative
Mutation in mammalian cells		Negative
Assessment / classification:		Based on available data, the classification criteria are not met

#### Carcinogenicity

The product does not contain ingredients classified as carcinogens.

Assessment / classification:		Based on available data, the classification criteria are not met
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#### Reproductive toxicity

Ammonium nitrate

OECD guideline 422.		No effects (NOAEL >1500 mg/kg bw)
Assessment / classification:		Based on available data, the classification criteria are not met

#### Specific target organ toxicity (single exposure)

There is no data for the mixture itself.

Ammonium nitrate:		Not available
Assessment / classification:		Based on available data, the classification criteria are not met

#### Specific target organ toxicity (repeated exposure)

There is no data for the mixture itself.

		Ammonium nitrate
OECD guideline 422.		No effects (NOAEL >1500 mg/kg bw)
Assessment / classification:		Based on available data, the classification criteria are not met

#### Aspiration hazard

Physicochemical and toxicological data does not indicate a potential aspiration hazard.

Assessment / classification:		Based on available data, the classification criteria are not met
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## SECTION 12: Ecological information

### 12.1. Toxicity

There is no data for the mixture itself.

	Ammonium nitrate
96-h LC50	447 mg/L (48-h LC50) <i>Cyprinus carpio</i>
48-h EC50	read across from potassium nitrate
10 d EC50	read across from potassium nitrate
Assessment / classification:	Based on available data, the classification criteria are not met

### 12.2. Persistence and degradability

Under anoxic conditions, denitrification occurs and nitrate is ultimately converted into molecular nitrogen as part of the Nitrogen cycle.

### 12.3. Bioaccumulative potential

Ammonium nitrate has low potential for bioaccumulation based on physicochemical properties.

### 12.4. Mobility in soil

Nitrate and Boron have a low potential for adsorption. Nitrate portion not taken up by plants, can leach to groundwater.

### 12.5. Results of PBT and vPvB assessment

This mixture does not contain ingredients that are assessed to be a PBT or a vPvB

### 12.6. Other adverse effects

Excess nitrate leaching may enrich waters leading to eutrophication.

## SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Delivery to an approved waste disposal company. Dispose according to legislation. Do not allow to enter into surface water or drains.

### 13.1. Waste treatment methods

Any suitable waste treatment method.

## SECTION 14: Transport information

### Land transport (ADR/RID)

UN-No.	Not applicable
Proper Shipping Name	Not applicable
Class(es)	Not applicable
Classification code	Not applicable
Packing group	Not applicable
Hazard label(s)	Not applicable
Special marking	Not applicable

### Inland waterway transport (ADN)

UN-No.	Not applicable
Proper Shipping Name	Not applicable
Class(es)	Not applicable
Classification code	Not applicable
Packing group	Not applicable
Hazard label(s)	Not applicable
Special marking	Not applicable

### Sea transport (IMDG)

UN-No.	Not applicable
Proper Shipping Name	Not applicable
Class(es)	Not applicable
Packing group	Not applicable
Marine pollutant	Not applicable
Hazard label(s)	Not applicable



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Special marking

Not applicable

**Special precautions for user**

None

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**Remark**

None

## SECTION 15: Regulatory information

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

Regulation (EC) 2003/2003 relating to fertilisers

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for the mixture.

## SECTION 16: Other information

This Safety Data Sheet complies with Commission Regulation (EU) No 453/2010

Full text definitions of the use descriptor system as in the Guidance on Information Requirements and Chemical Safety Assessment, chapter R.12. Use descriptor system is available at:

[http://guidance.echa.europa.eu/index\\_en.htm](http://guidance.echa.europa.eu/index_en.htm)

Exposure scenarios for ammonium nitrate have been incorporated to this safety data sheet

### Risk phrases/Hazard Statements

R8 Contact with combustible material may cause fire.

R36 Irritating to eyes

**Data source:** Ammonium nitrate safety data sheet

This information is based upon the present state of our knowledge

This SDS has been compiled and is solely intended for this product

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**Indication of changes**

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