



# SAFETY DATA SHEET

## UREA PHOSPHATE

Product No: 020/02-US

### Section 1 : Identification of the Substance and of the Company

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Product Name : Urea Phosphate  
Use of the Substance : Raw material for fertilizer production and use  
Supplier : SQM Northamerica Corporation  
Address : 3101 Towercreek Parkway, Suite 450  
Atlanta, GA 30339  
Telephone : (770) 916 9400  
Fax : (770) 916 9401  
E-mail address : product\_safety@sqm.com  
Emergency Number : (800) 424 9300 (CHEMTREC)

### Section 2 : Composition/Information on Ingredients

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Chemical Name : Urea Phosphate  
CAS No. : 4861 – 19 – 2  
EINECS No. : 225 – 464 – 3  
Molecular Weight : 158.0  
Formula :  $(\text{NH}_2)_2\text{CO}\cdot\text{H}_3\text{PO}_4$   
Content : 98 % min

### Section 3 : Hazards Identification

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#### Emergency Overview

May cause burns. Avoid contact and inhalation.

#### NFPA Ratings

Health : 1  
Flammability : 0  
Reactivity : 1  
Special : Corrosive

#### HMIS Ratings

Health : 1  
Flammability : 0  
Reactivity : 1

#### Potential Health Effects

Inhalation : Inhalation of dust may irritate the mucous membranes and respiratory tract.  
Ingestion : May be harmful.  
Skin Contact : May cause irritation and burns.  
Eye Contact : May cause irritation and burns.

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## Section 4 : First Aid Measures

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### General Information

In case of adverse effects consult a physician.

### Specific Measures

- Inhalation : Remove to fresh air. Get medical attention for any breathing difficulty.
- Ingestion : Rinse mouth with water and drink plenty of water. Never give anything by mouth (oral) to an unconscious person. Seek medical attention.
- Skin Contact : Wash with copious amount of water. Remove contaminated clothing. Contact a physician if necessary.
- Eye Contact : Flush eyes with plenty of water for 15 minutes, lifting lower and upper eyelids occasionally. Contact an ophthalmologist.

## Section 5 : Firefighting Measures

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- Fire : Non flammable.
- Fire Extinguishing : Any mean suitable for extinguishing surrounding fire.
- Media
- Special Protective Equipment : Use self contained breathing apparatus. Wear protective clothing. The product emits toxic fumes under fire conditions (ammonia and carbon dioxide).

## Section 6 : Accidental Release Measures

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- Personal Precautions : Ventilate the area. Take precautions to minimize contact with the substance. Use personal protective equipment (Section 8).
- Environmental Precautions: Do not discharge into drains. Avoid surface and ground water contamination.
- Methods for Cleaning Up/Taking Up : Pick up the dry product mechanically and store in suitable containers for recovery or disposal. Avoid raising dust.

## Section 7 : Handling and Storage

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### Handling

- Special Procedures : None.
- Safe Handling Procedures : Minimize dust generation. Avoid contact with eyes and skin. Incompatible with bases due to acid behaviour when dissolved in water.
- Special Advices : None.

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### Storage

Special Requirements : Reseal carefully any opened container and set upright to avoid leakages. Keep the product in the original containers.

Storage Conditions : Keep tightly closed, in well ventilated and cool place. Segregation from other dangerous goods required, specially from bases.

## Section 8 : Exposure Controls / Personal Protection

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### Exposure Limit Values

Suggested according to US regulations : 15 mg/m<sup>3</sup> (total dust) ; 5 mg/m<sup>3</sup> (respirable fraction)

### Exposure Controls

Local exhaust ventilation to keep low dust environment.

### Personal Protective Equipment

Respiratory : Dust mask if necessary (filter type P2).

Eyes : Safety goggles required all the time.

Hands : Nitrile rubber gloves, over 0.11 mm thickness, > 480 min breakthrough time.

## Section 9 : Physical and Chemical Properties

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Physical Form	: Crystalline solid
Colour	: White
Odour	: Odourless
pH	: 2.75 (0.05% aqueous solution)
Melting Point	: 116 - 117 °C
Boiling Point	: not available
Flash Point	: not applicable
Flammability	: no data available
Autoignition temperature	: it does not ignite
Explosion limits	: not applicable
Water Solubility	: 96 g/100 mL (20 °C )
Bulk Density	: 1000 Kg/m <sup>3</sup>

## Section 10 : Stability and Reactivity

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Stability : Stable under normal storage and temperature conditions.

Conditions to avoid : Contact with strong oxidizing agents, strong reducing agents, bases.





Avoid high temperatures.

Hazardous

Decomposition Products : Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia.

## Section 11 : Toxicological Information

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Oral Rat Toxicity (LD<sub>50</sub>) : 5840 mg/Kg (Source:U.S. National Library of Medicine)

To the best of our knowledge, the toxicological properties of this substance have not been deeper investigated.

## Section 12 : Ecological Information

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### General

Do not discharge into drains and water or public depositories.

No ecotoxicological data available.

Potentially local effect to aquatic organisms due to pH lowering of water.

Bioaccumulation not expected, since it produces urea and phosphoric acid in water.

## Section 13 : Disposal Considerations

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Residues : Allocation of a waste code number, according to the European Waste catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Empty Packaging : Empty containers may be reused after appropriate cleansing. Packaging that can not be cleaned should be disposed in agreement with the regional waste disposal company.

## Section 14 : Transport Information

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### Rail & Road (ADR/IRD) – Sea (IMDG Code) – Air (IATA)

Proper Shipping Name Corrosive Solid, n.o.s. (Urea Phosphate)

UN Number 1759

Class 8

Packaging Group II

Hazard Label Corrosive

Marine Pollutant No

EmS F-A; S-B





## Section 15 : Regulatory Information

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### US Classification

Indication of Danger	Corrosive.
Risk statements	May cause burns
Safety Statements	Avoid contact and inhalation.
SARA	Not listed
TSCA	Urea and Phosphoric Acid are listed
California Prop. 65	Not listed

### Labelling according to EC Directives

Hazard Symbol	C	Corrosive
R phrases	34	Causes burns (*)
S phrases	2	Keep out of reach of children
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	39	Wear eye/face protection
	45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

(\*) main primary risk is irritation. More sensitive individuals may suffer burns.

## Section 16 : Other Information

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This MSDS complies with ANSI Standard Z400.1-2004.

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