



# ULTRASOL Magnum P44

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 4.1

### SECTION 1: Identification

#### 1.1. Identification

Product form : Substance  
Trade name : ULTRASOL Magnum P44  
Chemical name : Urea phosphate  
CAS-No. : 4861-19-2  
Product code : 020\_USA  
Formula : CH4N2O.H3O4P  
Other means of identification : Urea phosphate

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Industrial uses: Uses of substances as such or in preparations at industrial sites  
Fertilizers  
Restrictions on use : None known

#### 1.3. Supplier

##### Supplier

SQM North America  
2727 Paces Ferry Rd, Building Two, Suite 1425  
Atlanta, GA 30339 - United States  
T (770) 916 9400 - F (700) 916 9404  
[product\\_safety@sqm.com](mailto:product_safety@sqm.com) - [www.sqm.com](http://www.sqm.com)

#### 1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week  
  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1 703-741-5970  
(collect calls accepted)

### SECTION 2: Hazard(s) identification

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

##### GHS US classification

Skin corrosion/irritation Category 1B Causes severe skin burns and eye damage  
Serious eye damage/eye irritation Category 1 Causes serious eye damage

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
Hazard statements (GHS US) : Causes severe skin burns and eye damage  
Precautionary statements (GHS US) : Do not breathe dust, mist.  
Wash hands, forearms and face thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: rinse mouth. Do NOT induce vomiting  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse.  
If inhaled: Remove person to fresh air and keep comfortable for breathing  
Immediately call a poison center or doctor  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	GHS US classification
Urea phosphate (Main constituent)	(CAS-No.) 4861-19-2	> 97	Skin Corr. 1B, H314 Eye Dam. 1, H318

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Call a physician immediately. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Call a physician immediately.
- First-aid measures after eye contact : 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. Drink plenty of water. Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/effects after inhalation : Dust from this product may cause severe irritation to the respiratory tract.
- Symptoms/effects after skin contact : Causes severe burns.
- Symptoms/effects after eye contact : Serious damage to eyes.
- Symptoms/effects after ingestion : Severe irritation or burns to the mouth, throat, esophagus, and stomach.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None known. Incompatible materials.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : Not flammable.
- Explosion hazard : Not explosive.
- Reactivity : The product is non-reactive under normal conditions of use, storage and transport. Thermal decomposition can lead to the release of irritating gases and vapors. thermal decomposition may produce : Nitrogen oxides. Carbon oxides (CO, CO<sub>2</sub>). ammonia. Phosphorous oxide.

### 5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

## SECTION 6: Accidental release measures

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

- General measures : Ventilate area.

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### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

### 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".

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

For containment : Use appropriate container to avoid environmental contamination.  
Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.  
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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment. Wash hands before break and at end of works.  
Hygiene measures : Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Always wash hands after handling the product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials: Reducing agents, flammable materials, Combustible materials. Keep container closed when not in use. Opened containers must be carefully closed and kept upright to avoid leakage.  
Incompatible materials : Strong oxidizing agent. Reducing agents. Bases.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

ULTRASOL Magnum P44 (4861-19-2)		
DNEL	DNEL	2.92 mg/m <sup>3</sup> Worker Long-term - systemic effects, inhalation
PNEC	PNEC	Not established
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	Not established
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	Not established
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	Not established
OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	Not established

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Effective contaminant extraction. Training staff on good practice. Management/supervision in place to check that RMMs on place are being used correctly and OCs followed.  
Environmental exposure controls : Do not allow to enter drains or water courses.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

nitrile rubber gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

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### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Other information:

Avoid all contact with skin, eyes, or clothing. Do not breathe dust. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. Emergency eye wash fountain with clean water.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Crystalline powder.
Color	: White
Odor	: odorless
Odor threshold	: Not applicable
pH	: 2.75 (0.05% Aqueous solution)
Melting point	: > 200 °C / > 392°F 1013 hPa / Test method EU A.1/ (OECD 102 method)
Freezing point	: Not applicable
Boiling point	: > 200 °C / 392° F 1013 hPa / Test method EU A.2/ (OECD 103 method)
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: Not applicable
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: < 0.0011 Pa at 68°F/ Test method EU A.3/ (OECD 109 method)
Vapor pressure at 50 °C	: Not applicable
Relative vapor density at 20 °C	: No data available
Relative density	: 1.77 at 68°F/ (OECD 104 method)
Solubility	: Soluble in water. Water: > 100 g/l at 68°F
Log Pow	: -1.73 at 68°F
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosion limits	: Not applicable
Explosive properties	: Not explosive.
Oxidizing properties	: Non oxidizing material.

### 9.2. Other information

Additional information : None

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Thermal decomposition can lead to the release of irritating gases and vapors. thermal decomposition may produce : Nitrogen oxides. Carbon oxides (CO, CO2). ammonia. Phosphorous oxide.

### 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

Avoid high temperatures. Incompatible materials.

### 10.5. Incompatible materials

Strong oxidizing agents. Reducing agents. Bases.

### 10.6. Hazardous decomposition products

Nitrogen oxides. Carbon oxides (CO, CO2). Ammonia. Phosphorus oxides.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

ULTRASOL Magnum P44 (4861-19-2)	
LD50 oral rat	2600 mg/kg (OECD 423 method)
ATE US (oral)	2600 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
pH: 2.75 (0.05% Aqueous solution)

Serious eye damage/irritation : Causes serious eye damage.  
pH: 2.75 (0.05% Aqueous solution)

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified  
No mutagenic effect  
OECD 471 METHOD  
(OECD 476 method)  
(OECD 473 method)

Carcinogenicity : Not classified

ULTRASOL Magnum P44 (4861-19-2)	
IARC group	Not listed
National Toxicology Program (NTP) Status	Not listed

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

ULTRASOL Magnum P44 (4861-19-2)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight/day (OECD 422 method)

Aspiration hazard : Not classified

Likely routes of exposure : Skin and eye contact.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : Dust from this product may cause severe irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes severe burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Severe irritation or burns to the mouth, throat, esophagus, and stomach.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : May cause pH changes in aqueous ecological systems.

ULTRASOL Magnum P44 (4861-19-2)	
LC50 fish 1	> 9100 mg/l
EC50 Daphnia 1	> 100 mg/l Test method EU C.2/ (OECD 202 method)
NOEC (chronic)	47 mg/l 192h/ <i>Microcystis aeruginosa</i>

#### 12.2. Persistence and degradability

ULTRASOL Magnum P44 (4861-19-2)	
Persistence and degradability	Contains no substances known to be hazardous to the environment.

#### 12.3. Bioaccumulative potential

ULTRASOL Magnum P44 (4861-19-2)	
Log Pow	-1.73 at 68°F
Bioaccumulative potential	Low bioaccumulation potential.

#### 12.4. Mobility in soil

ULTRASOL Magnum P44 (4861-19-2)	
Ecology - soil	Expected to be highly mobile in soil.

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### 12.5. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems. May cause eutrophication at very low concentration.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations. This product is not listed as a dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Do not allow into drains or water courses. Do not allow material to contaminate surface water system.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1759 Corrosive solids, n.o.s. (Urea phosphate), 8, II

UN-No.(DOT) : UN1759

Proper Shipping Name (DOT) : Corrosive solids, n.o.s.  
Urea phosphate

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 8 - Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx) : 212

DOT Packaging Bulk (49 CFR 173.xxx) : 240

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : 128 - Regardless of the provisions of §172.101(c)(12), aluminum smelting by-products and aluminum remelting by-products described under this entry, meeting the definition of Class 8, Packing Group II and III may be classed as a Division 4.3 material and transported under this entry. The presence of a Class 8 hazard must be communicated as required by this Part for subsidiary hazards  
IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).  
IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.  
IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.  
T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)  
TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 15 kg

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 50 kg  
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
Emergency Response Guide (ERG) Number : 154  
Other information : No supplementary information available.  
IBC code : Not applicable.

### Transportation of Dangerous Goods

Transport document description : UN1759 CORROSIVE SOLID, N.O.S. (Urea phosphate), 8, II  
Un Number : UN1759  
Proper Shipping Name (Transportation of Dangerous Goods) : CORROSIVE SOLID, N.O.S.  
TDG Primary Hazard Classes : 8 - Class 8 - Corrosives  
Packing group : II - Medium Danger  
TDG Special Provisions : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306  
Explosive Limit and Limited Quantity Index : 1 kg  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 15 kg

### Transport by sea

Transport document description (IMDG) : UN 1759 CORROSIVE SOLID, N.O.S. (Urea phosphate), 8, II  
UN-No. (IMDG) : 1759  
Proper Shipping Name (IMDG) : CORROSIVE SOLID, N.O.S.  
Class (IMDG) : 8 - Corrosive substances  
Packing group (IMDG) : II - substances presenting medium danger

### Air transport

Transport document description (IATA) : UN 1759 Corrosive solid, n.o.s. (Urea phosphate), 8, II  
UN-No. (IATA) : 1759  
Proper Shipping Name (IATA) : Corrosive solid, n.o.s.  
Class (IATA) : 8 - Corrosives  
Packing group (IATA) : II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

ULTRASOL Magnum P44 (4861-19-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation

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### 15.2. International regulations

#### CANADA

##### ULTRASOL Magnum P44 (4861-19-2)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

##### ULTRASOL Magnum P44 (4861-19-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

##### ULTRASOL Magnum P44 (4861-19-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

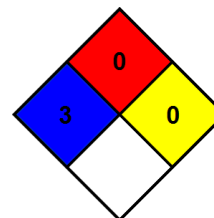
##### ULTRASOL Magnum P44 (4861-19-2)

U.S. - California - Proposition 65 - Other information

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Revision date	: 11/20/2018
Data sources	: REACH registrations. Information in this safety data sheet is based on actual knowledge in our possession and our experience.
NFPA 704/2017	
NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



Indication of changes:

Section	Changed item	Change	Comments
		This sheet has been revised completely (changes were not marked)	
1	Emergency number	updated	
1	Product name - Trade name	Added	
2	Precautionary statements (GHS US)	updated	
5	Hazardous decomposition products	updated	
10	Hazardous decomposition products	Added	
15	Hazardous Product Inventory	updated	

SDS US (GHS HazCom 2012)

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