



# Ultrasol SOP

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 4/3/2023 Revision date: 4/3/2023 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form	: Substance
Trade name	: Ultrasol SOP
Chemical name	: Potassium Sulfate
CAS-No.	: 7778-80-5
Product code	: 005b_USA
Formula	: H2O4S.2K
Other means of identification	: Sulphate of Potash Ultrasol SOP Ultrasol SOP 52 Ultrasol SOP-WS

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

Recommended use	: Fertilizers, Formulation [mixing] of preparations and/or re-packaging (excluding alloys), Industrial uses: Uses of substances as such or in preparations at industrial sites
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#### 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@sgm.com](mailto:product_safety@sgm.com); [spn-northamerica@sgm.com](mailto:spn-northamerica@sgm.com); - [www.sgm.com/sgmnutrition.com](http://www.sgm.com/sgmnutrition.com)  
[product\\_safety@sgm.com](mailto:product_safety@sgm.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)
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### SECTION 2: Hazard(s) identification

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

##### GHS US classification

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 serious eye damage
Precautionary statements (GHS US)	: Wear protective clothing, eye protection, face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

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Continue rinsing.  
Immediately call a POISON CENTER, a doctor.

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

Other hazards which do not result in classification : None known.

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

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Substance type : Mono-constituent  
Name : Potassium Sulfate  
CAS-No. : 7778-80-5

Name	Product identifier	%	GHS US classification
Potassium Sulfate	CAS-No.: 7778-80-5		Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. In all cases of doubt, or when symptoms persist, seek medical attention.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.  
First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
First-aid measures after ingestion : Rinse mouth. Drink plenty of water. Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after inhalation : May cause respiratory irritation.  
Symptoms/effects after skin contact : May cause slight irritation to the skin.  
Symptoms/effects after eye contact : May cause eye irritation.  
Symptoms/effects after ingestion : On ingestion in large quantities: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### 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.

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### 5.2. Specific hazards arising from the chemical

Explosion hazard	: Not explosive.
Reactivity in case of fire	: Thermal decomposition generates : Sulphur oxides.
Hazardous decomposition products in case of fire	: At high temperatures may form : Toxic and corrosive vapors may be released. Sulphur oxides.

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

Firefighting instructions	: Use extinguishing media appropriate for surrounding fire. Dilute toxic gases with water spray.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Thermal decomposition generates : Sulphur oxides.

## SECTION 6: Accidental release measures

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

General measures	: Use personal protective equipment as required. Ventilate area. Avoid dust formation.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

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

Do not allow into drains or water courses.

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

For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
Methods for cleaning up	: Mechanically recover the product. Do not absorb with saw-dust or any other combustible absorbent material. 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 8: "Exposure controls/personal protection". 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. Do not breathe dust. Wear personal protective equipment.
Hygiene measures	: General protective and hygienic measures. Keep away from food, drink and animal feedingstuffs. 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

Technical measures	: Containers which are opened should be properly resealed and kept upright to prevent leakage.
Storage conditions	: Store in a closed container. Store in a dry place. Store in a well-ventilated place. Keep cool.
Incompatible materials	: None known.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Ultrasol SOP (7778-80-5)

##### USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	Not established
ACGIH OEL Ceiling	Not established

##### USA - OSHA - Occupational Exposure Limits

OSHA PEL (TWA) [1]	Not established
OSHA PEL (Ceiling)	Not established

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Local exhaust is recommended where dust may occur.

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

##### Hand protection:

Protective gloves. nitrile rubber gloves. (recommended)

##### Eye protection:

Protective goggles

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Dust production: dust mask with filter type P1

##### Personal protective equipment symbol(s):



### 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	: 4.5 – 8.5 Aqueous solution: 5%
Melting point	: 1067 °C / 1953° F
Freezing point	: Not applicable
Boiling point	: 1689 °C / 3072°F
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: Not volatile
Flammability (solid, gas)	: Not flammable.

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Vapor pressure	: Not applicable
Relative vapor density at 20°C	: Not applicable
Relative density	: No data available
Molecular mass	: 174.26 g/mol
Solubility	: Soluble in water. Water: > 100 g/l at 68°F
Partition coefficient n-octanol/water (Log Pow)	: Not applicable Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosion limits	: Not applicable
Explosive properties	: Product is not explosive.
Oxidizing properties	: Non oxidizing material.

### 9.2. Other information

Bulk density	: 1100 – 1600 kg/m <sup>3</sup>
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

thermal decomposition may produce : Sulphur oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Ultrasol SOP (7778-80-5)

LD50 oral rat	> 2000 mg/kg body weight (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402 method) / EU B.3

Skin corrosion/irritation	: Not classified pH: 4.5 – 8.5 Aqueous solution: 5%
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Serious eye damage/irritation	: Causes serious eye damage. pH: 4.5 – 8.5 Aqueous solution: 5%
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

### Ultrasol SOP (7778-80-5)

IARC group	Not listed
National Toxicology Program (NTP) Status	Not listed
Reproductive toxicity	: Not classified

### Ultrasol SOP (7778-80-5)

NOAEL (animal/male, F0/P)	≥ 1500 mg/kg body weight (OECD 422 method)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

### Ultrasol SOP (7778-80-5)

NOAEL (subacute,oral,animal/male,28 days)	≥ 1500 mg/kg body weight (OECD 422 method)
NOAEL (subchronic,oral,animal/male,90 days)	256 mg/kg body weight (OECD 453 method)

### Potassium Sulfate (7778-80-5)

NOAEL (dermal, rat/rabbit, 90 days)	> 1500 mg/kg bodyweight/day (OECD 422 method)
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause slight irritation to the skin.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: On ingestion in large quantities: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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### Ultrasol SOP (7778-80-5)

LC50 - Fish [1]	680 mg/l Pimephales promelas, EPA 600/4-90/027
EC50 - Crustacea [1]	720 mg/l EPA 600/4-90/027
ErC50 algae	2700 mg/l Chlorella Vulgaris
NOEC chronic algae	≥ 100 mg/l Chlorella Vulgaris

### 12.2. Persistence and degradability

### Ultrasol SOP (7778-80-5)

Persistence and degradability	Contains no substances known to be hazardous to the environment.
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### 12.3. Bioaccumulative potential

#### Ultrasol SOP (7778-80-5)

Partition coefficient n-octanol/water (Log Pow)	Not applicable
Partition coefficient n-octanol/water (Log Kow)	Not applicable
Bioaccumulative potential	Low bioaccumulation potential. Material highly soluble in water.

### 12.4. Mobility in soil

#### Ultrasol SOP (7778-80-5)

Ecology - soil	Soluble in water. Expected to be highly mobile in soil.
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### 12.5. Other adverse effects

Other adverse effects : None known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations. 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 at a licensed waste collection center. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Do not flush into surface water or sewer system.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable  
Proper Shipping Name (TDG) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not applicable

#### TDG

Transport hazard class(es) (TDG) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

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### 14.4. Packing group

Packing group (DOT)	: Not applicable
Packing group (TDG)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

### 14.5. Environmental hazards

Other information	: No supplementary information available.
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### 14.6. Special precautions for user

Special transport precautions	: None
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#### DOT

No data available

#### TDG

No data available

#### IMDG

No data available

#### IATA

No data available

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

IBC code	: Not applicable.
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## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Ultrasol SOP (7778-80-5)

SARA Section 311/312 Hazard Classes	Health hazard - Serious eye damage or eye irritation
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Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA): listed

### 15.2. International regulations

#### CANADA

#### Ultrasol SOP (7778-80-5)

Listed on the Canadian DSL (Domestic Substances List)

#### Potassium Sulfate (7778-80-5)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

#### Ultrasol SOP (7778-80-5)

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



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### Potassium Sulfate (7778-80-5)

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

### National regulations

#### Ultrasol SOP (7778-80-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on CICR (Turkish Inventory and Control of Chemicals)

### 15.3. US State regulations

#### Ultrasol SOP (7778-80-5)

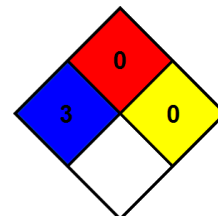
U.S. - California - Proposition 65 - Other information	California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm
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## SECTION 16: Other information

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

Revision date : 4/3/2023  
Data sources : REACH registrations.

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.



Safety Data Sheet (SDS), USA

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