

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier

Sulfate of Potash

Other means of identification

Turf Granular SOP, Ag Granular SOP, Soluble Fines SOP, Standard SOP, Mid Granular SOP, Mini Granular SOP, Choice Granular SOP, Organic K+®Ag Granular SOP, Organic K+®Soluble Fines SOP, Organic K+®Standard SOP, Organic K+®Mid Granular SOP, Organic K+®Mini Granular SOP, Organic K+®Choice Granular SOP, Protassium+™ Organic Standard, Protassium+™ Organic Mid Granular, Protassium+™ Organic Soluble Fines, Protassium+™ Organic Ag Granular, Protassium+™ Organic Standard Fines, Protassium+™ Organic Mini Granular, Protassium+™ Turf Granular, Protassium+™ Choice Granular, Protassium+™ Standard Fines, Protassium+™ Soluble Fines, Protassium+™ Mini Granular, Protassium+™ Greens Grade, Protassium+™ Ag Granular, Protassium+™ Mid Granular, Protassium+™ 220 GL, Protassium+™ 145 GL,

Protassium+™ 17 IX,

Protassium+™ 3 IX, Protassium+™ 90 IX, Protassium+™ 40 IX, Protassium+™ 17 GL, Protassium+™ 145 IX, Protassium+™ 40 GL, Protassium+™ 30 GL, SOP-220, SOP-145, SOP-17IX, SOP-25IX, SOP-40IX, SOP-90IX, SOP-145IX, SOP-235IX, SOP-17, SOP-30, SOP-145IX, SOP-17, SOP-30, SOP-185IX, SOP-185IX, SOP-185IX, SOP-30IX, SOP-30IX,

SOP-30P, Protassium+™ 25 IX, Protassium+™ 30 IX, Protassium+™ 235 IX, SOP-3, SOP-30IX, SOP-40.

Recommended use

Specialty crop nutrient, turf grass fertilizer, general fertilizer uses, and specialty industrial uses.

Recommended restrictions

None known.

Manufacturer

Compass Minerals International 9900 West 109th Street, Suite 100

Overland Park, KS 66210 US Phone 913-344-9200

CHEMTREC 1-800-424-9300 **CANUTEC** 1-613-996-6666

2. Hazards Identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word Not available.

Hazard statement Not available.

Precautionary statement

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/Information on Ingredients

Substance

Chemical name	Common name and synonyms	CAS number	%
Potassium sulfate	SOP, Sulfate of Potash	7778-80-5	92 - 100

4. First Aid Measures

Inhalation

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. Call a physician if symptoms develop or persist.

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Skin contact Brush away excess of dry material. Flush with cool water. Wash with soap and water. Obtain

medical attention if irritation persists.

Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain Eye contact

medical attention if irritation persists.

Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Ingestion

Obtain medical attention.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Exposed individuals may experience eye tearing, redness, and discomfort.

Indication of immediate medical attention and special Symptoms may be delayed.

treatment needed **General information**

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show

this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing

media

Treat for surrounding material.

None known.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Firefighters should wear a self-contained breathing apparatus.

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire-fighting

equipment/instructions

In the event of fire, cool tanks with water spray.

Specific methods

Cool containers exposed to flames with water until well after the fire is out.

Hazardous combustion

products

May include and are not limited to: Oxides of sulfur.

Explosion data

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear a dust mask if dust is generated above exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling

Avoid breathing dust.

Minimize dust generation and accumulation.

Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Use good industrial hygiene practices in handling this material.

Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Guard against dust accumulation of this material.

Store in a well-ventilated place. Store in a closed container. Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values Exposure guidelines

No biological exposure limits noted for the ingredient(s). This material does not have established exposure limits.

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Appropriate engineering controls

TWA PEL: No specific limits have been established for potassium sulfate (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for potassium sulfate (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields.

Skin protection

Hand protection Use protective gloves. Confirm with a reputable supplier first.

Other As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator or

NIOSH-approved filtering facepiece.

Thermal hazards

Not available.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

and immediately after handling the product. When using do not eat or drink.

9. Physical and Chemical Properties

Appearance Solid.

Physical state Solid.

Form Powder, Crystals or Granular.

Colorwhite to brownOdorOdorlessOdor thresholdNot available.pH7 (10% solution)

7 Aqueous solution is neutral

Melting point/freezing point Initial boiling point and boiling 1952.6 °F (1067 °C) 3072.2 °F (1689 °C)

range

3072.2 °F (1689 °C)

Pour point Not available.

Specific gravity 2.66 @21°C (H2O = 1)

2.66

Partition coefficient

(n-octanol/water)

Not available.

Flash point None

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

r Not applicable

(%)

Flammability limit - upper

Not applicable

(%)

Explosive limit - lower (%) Not available.

Not available. **Explosive limit - upper (%)** < 0 kPa at 25 °C Vapor pressure Vapor density Not available. Not available. Relative density Solubility(ies) Appreciable **Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Not available. **Viscosity**

Other information

Density 2.66 g/cm3 estimated

Flash point class Flammable IB

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Molecular formula K2SO4 Molecular weight 174.27

10. Stability and Reactivity

Reactivity May react with the following components: Aluminum. Magnesium.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Contact with incompatible materials. Do not mix with other chemicals.

Incompatible materials
Hazardous decomposition

products

May include and are not limited to: Oxides of sulfur.

None when used and stored according to label directions.

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

IngestionMay cause stomach distress, nausea or vomiting.InhalationInhalation of dusts may cause respiratory irritation.

Skin contact May be irritating to the skin.

Eye contact May be irritating to eyes. Dust in the eyes will cause irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

Acute toxicity

Components Species Test Results

Potassium sulfate (CAS 7778-80-5)

AcuteDermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat 6600 mg/kg

Skin corrosion/irritation May cause irritation.

Exposure minutes Not available.
Erythema value Not available.
Oedema value Not available.

Serious eye damage/eye

irritation

Dust in the eyes will cause irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicityNon-hazardous by WHMIS/OSHA criteria. **Mutagenicity**Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity Not classified or listed by IARC, NTP, OSHA and ACGIH.

Reproductive toxicityNon-hazardous by WHMIS/OSHA criteria. **Teratogenicity**Non-hazardous by WHMIS/OSHA criteria.

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Specific target organ toxicity -

single exposure

Not available.

Specific target organ toxicity -

repeated exposure

Not available.

Aspiration hazard

Not available.

Chronic effects

Non-hazardous by WHMIS/OSHA criteria.

Further information Name of Toxicologically Synergistic Products Not available.

Not available.

12. Ecological Information

Ecotoxicity See below

Product Species Test Results

Sulfate of Potash

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 510 - 880 mg/l, 96 hours

Components Species Test Results

Potassium sulfate (CAS 7778-80-5)

 Algae
 IC50
 Algae
 2900 mg/L, 72 Hours

 Crustacea
 EC50
 Daphnia
 890 mg/L, 48 Hours

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 510 - 880 mg/l, 96 hours

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Mobility in general

Other adverse effects

Not available.

Not available.

Not available.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Waste must be

Dispose in accordance with all applicable regulations.

disposed of in accordance with federal, state/provincial and local environmental control

regulations.

Local disposal regulations

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

WHMIS status Not Controlled

US federal regulations This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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CERCLA Hazardous Substance List (40 CFR 302.4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Nο

Hazard categories Immediate Hazard - No

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Administration (FDA) Direct food additive

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

Inventory status

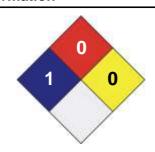
Inventory name	On inventory (yes/no)*
Domestic Substances List (DSL)	Yes
Non-Domestic Substances List (NDSL)	No
Toxic Substances Control Act (TSCA) Inventory	Yes
	Domestic Substances List (DSL) Non-Domestic Substances List (NDSL)

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. The above SDS reflects the latest information on file with respect to hazards, properties and handling of this product. No warranty however, expressed or implied, is made with regard to the use of this information. The information in the sheet was written based on the best knowledge and experience currently available.

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Other information This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.