



ALMAZGROUP®
ALMAZ FERTILIZERS®

SAFETY DATA SHEET

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

POTASSIUM SULPHATE

Issue date: 20.09.2023

Revision date: 20/09/2026

Version: 2.0

US / EN

SECTION 1. IDENTIFICATION

1.1. Identification

Product name Potassium Sulphate
Trade name : Potassium Sulphate (SOP)

1.2. Recommended use and restrictions on use

Recommended use : Used in agricultural application as a water-soluble potassium sulfur-containing chlorine-free fertilizer. Used in various fields of industry (for example, it is used to obtain alum and other chemical potassium compounds in metallurgy, as a charge component in glass production, and can be used in the pharmaceutical and food industries).

1.3. Supplier

Manufacturer: : **LLC «Almaz Fertilizers»**
room 60, house 7, street Promyshlennaya, city Lermontov,
Stavropol Region, Russian Federation, 357341
T + 7(879-35) 3-06-72
info@a-group.com

Distributor: **LLC «CASHMERE CAPITAL»** 1N room, premises II, floor 5,
building 2, house 4/7, Vozdvizhenka street, Moscow, 125009,
Russia
T 8 800 505 44 17
sales@cashmere-cap.com

1.4 Emergency telephone number

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

Emergency Number US: 001-201-796-7100 / Europe: +32 14 57 52 99

CHEMTREC Tel. No. US: 001-800-424-9300 / Europe: 001-703-527-3887

Note: please, consult with your local/national competent authorities for the emergency number in your country.

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This substance is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required
Hazards not otherwise classified (HNOC) None identified
HMIS (Perceived): Health hazard: 1, Flammability: 0, Physical hazards: 0
NFPA (Perceived): Health hazard: 1, Fire: 0, Reactivity Hazard: 0

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

Classification and labelling according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS), ST/SG/AC.10/30/Rev.8

Hazard Class and Category Code(s): Hazard Statement(s):

Eye irritation, Category 2B Causes eye irritation



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Acute toxicity, oral, Category 5
Skin corrosion/irritation, Category 3

May be harmful if swallowed
Causes mild skin irritation

2.2 Label elements:

Hazard pictogram (s)

: None

Signal Word

: Warning

Hazard statements

: H320 Causes eye irritation
H303 May be harmful if swallowed
H316 Causes mild skin irritation

Precautionary state:ments

: P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P262: Do not get in eyes, on skin, or on clothing.
P281: Use personal protective equipment as required.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists get medical advice/attention.
No additional information available

2.3 Other hazards:

2.4 Unknown acute toxicity
(GHS-US)

No data available

SECTION 3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substance

Formula : K₂O₄S

Molecular weight : 174.26 g/mol

CAS-No. : 7778-80-5

EC-No. : 231-915-5

Chemical name	Concentration, wt. %	CAS-No
Potassium sulphate	≥99,3	7778-80-5

There are no additional ingredients, which are presented existing within the current supplier's knowledge and clas-sified, contributed to the substance's classification and consequently required reporting in this section.

3.2 Mixture

Not applicable

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures



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- First-aid measures general : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes.
- I First-aid measures after inhalation : If breathed in, move person into fresh air. Keep patient warm and at rest. Get medical advice or attention if you feel unwell.
- First-aid measures after skin contact : In case of contact, flush skin with soap and plenty of water. If skin irritation persists, call a physician.
- First-aid measures after eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse with plenty of water and seek medical advice. If symptoms persist, call a physician.
- First-aid measures after ingestion : Rinse mouth with water. Get medical attention if you feel unwell.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/injuries after inhalation : AFTER INHALATION OF DUST: Coughing. Irritation of the nasal mucous membranes.
- Symptoms/injuries after skin contact : Slight irritation.
- Symptoms/injuries after eye contact : Slight irritation.
- Symptoms/injuries after ingestion : AFTER ABSORPTION OF HIGH QUANTITIES: Feeling of weakness. Nausea. Vomiting. Diarrhoea. Disturbances of heart rate.
- Chronic symptoms : Slight irritation. ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Tingling/irritation of the skin

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

- Suitable extinguishing media : EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed. Foam. Dry powder. Carbon dioxide. Water spray. Sand. Adapt extinguishing media to the environment.
- Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture

- Fire hazard : DIRECT FIRE HAZARD. Non combustible.
- Explosion hazard : DIRECT EXPLOSION HAZARD. No direct explosion hazard.
- Reactivity : On burning: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts violently with (some) acids.

5.3 Advice for firefighters

- Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows..



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Firefighting instructions : Dilute toxic gases with water spray. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : environment. Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions : Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathe dust. Avoid contact with skin and eyes.

6.2 Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further spillage if safe to do so. Avoid release to the environment.

6.3 Methods for cleaning up : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal. Avoid pollution of environment.

6.4 Reference to other sections : See section 8 for personal protective equipment and section 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Avoid formation of dust. Avoid breathe dust. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in a place accessible by authorized persons only. Protect from moisture. Keep container in a dry and well-ventilated place. Store in paper bags, plastic bags, fabric polypropylene bags or specialized soft containers.

Advice on common storage : Joint storage with acids, alkalis, organic substances, oxidizing agents, pesticides, mineral additives, preservatives, fodder and food products is prohibited.

Storage period : 12 months.

Other data : No data available.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls:

General industrial hygiene practice

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)..

Control of environmental exposure

Do not let product enter drains

Personal protective equipment (pictograms)



Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. General industrial hygiene practice. Avoid breathing dust. Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Follow the eyes and face protection plan.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Solid.
Form : Crystals.
Color : white, yellowish or brown



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Odor	: Odorless.
Odor threshold	: No data available.
Upper/lower flammability or explosive limits	: No data available.
Vapor density	: Not applicable. The product is a solid at normal conditions.
Vapor pressure	: Not applicable. The product is a solid at normal conditions.
pH	: 5.5 – 7.5
Relative density	: No data available.
Bulk density	: No data available.
Melting point/freezing point	: 1067 °C.
Solubility	: Water; soluble.
Initial boiling point and boiling range	: No data available.
Flash point	: Not applicable. The product does not evaporate.
Evaporation rate	: Not applicable. The product is a solid at normal conditions.
Flammability (solid, gas)	: Non-flammable.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: Not applicable. The product is a solid at normal conditions.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	: No data available
10.2 Chemical stability	: Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	: No data available.
10.4 Conditions to avoid	No data available.
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products	: Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Potassium oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

<u>Inhalation</u>	: May cause respiratory irritation (not classification).
<u>Eyes</u>	: Causes eye irritation.
<u>Skin</u>	: Causes mild skin irritation (not classification).
<u>Ingestion</u>	: There are no toxicological effects.

11.2 Sensitization of the respiratory / skin



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Skin sensitization : Not sensitizing for skin.

Respiratory sensitization : Non respiratory sensitizing.

11.3 Acute toxicity

Acute oral toxicity

Potassium sulphate : DL₅₀ (rat): > 2 000 mg/kg

Acute dermal toxicity

Potassium sulphate : DL₅₀ (rat): > 2 000 mg/kg

Acute inhalation toxicity

Potassium sulphate : LC₅₀ (rats): > 1.2 mg/l
Exposure time: 4 h

Chronic toxicity

No data available.

Mutagenicity

No mutagenic effect.

Carcinogenicity

No carcinogenic effect.

Reproductive toxicity

No reproductive effect.

Aspiration hazard

Not applicable. The product is a solid at normal conditions.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity effects

Toxicity to fish:

Potassium sulphate : LC₅₀ (Gasterosteidae): > 869 mg/l
Exposure time: 96 h
LC₅₀ (Alburnus alburnus): > 2380 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

Potassium sulphate : LC₅₀ (Daphnia magna): > 890 mg/l
Exposure time: 48 h

Toxicity to aquatic plants:

Potassium sulphate : EC₅₀ (Chlorella vulgaris): > 2700 mg/l
Exposure time: 18 day(s)



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Long-term study fish/daphnia and other aquatic invertebrates/aquatic plants:

No data available.

12.2. Persistence and degradability

Persistence Soluble in water, Persistence is unlikely, based on information available.

Degradability Not relevant for inorganic substances.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

12.4. Mobility in soil The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB assessment: No data available for assessment

12.6. Other adverse effects

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant This product does not contain any known or suspected substance

Ozone Depletion Potential This product does not contain any known or suspected substance

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

European Waste Catalogue (EWC)

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14. TRANSPORT INFORMATION

14.1 IMDG/IMO

UN number

Not regulated

UN proper shipping name

Not regulated

Transport hazard class(es)

Not regulated

Packing group

Not regulated

14.2 ADR

UN number

Not regulated

UN proper shipping name

Not regulated

Transport hazard class(es)

Not regulated

Packing group

Not regulated



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14.3 IATA

UN number

Not regulated

UN proper shipping name

Not regulated

Transport hazard class(es)

Not regulated

Packing group

Not regulated

14.5. Environmental hazards

No hazards identified

14.6. Special precautions for user

No special precautions required

14.7. Transport in bulk according to

Annex II of MARPOL73/78 and the

IBC Code

Not applicable, packaged goods

SECTION 15. REGULATORY INFORMATION

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

International Inventories

X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Potassium sulfate	231-915-5	-	-	X	X	-	X	X	X	X	X

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Potassium sulfate

CAS-No.

7778-80-5

Revision Date

New Jersey Right To Know Components

Potassium sulfate

CAS-No.

7778-80-5

Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

U.S. Federal Regulations:



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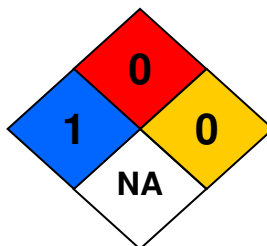
FIFRA	:	40 CFR 180 - Tolerance and Exemptions from Tolerances for Pesticide Chemicals in Food	Potassium sulphate	Present Section number 180.910
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SECTION 16. OTHER INFORMATION

Hazardous Material Information System (U.S.A.) :

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	F

National Fire Protection Association (U.S.A.) :



Preparation Information:

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This document has been updated to comply with the US OSHA HazCom2012 Standard replacing the current legislation under 29 CFR 1910. 1200 to align with the GloballyHarmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text