



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

TECHNICAL DATA SHEET According to Regulation (CE) 1907/2006 (REACH)
POTASSIUM SULPHATE K₂SO₄
CAS 7778-80-5

Customs commodity code 3104300000

Values	Test results
Mass fraction of Potassium as K ₂ O, %	50,5
Mass part of S, %	17,0
Moisture, %, maximum	0,033
PH (1% SO Solution)	2,6
Water insoluble, %	0,11
Mass fraction of chlorides (Cl), %	0,76
Mass fraction of chromium content (Cr), mg/kg	14
Mass fraction of hexavalent chromium content (Cr +6), mg/kg	< 1,0
Mass fraction of arsenic (As), mg/kg	< 1,5
Mass fraction of lead (Pb), mg/kg	< 1,0
Mass fraction of cadmium (Cd), mg/kg	< 0,2
Mass fraction of mercury (Hg), mg/kg	< 0,1
Mass fraction of copper (Cu), mg/kg	< 1,0
Mass fraction of zinc (Zn), mg/kg	1,2
Mass fraction of nickel (Ni), mg/kg	2,5
Appearance	Microcrystalline non-caking powder, white colour.
Mass fraction of sulphur compound in terms of SO ₄ , %, not less	52,0

PACKAGE	40' NOR	20' FCL
1000 kg big bags without pallets	up to 23-24 MT	up to 23-24 MT
1000 kg big bags on pallets	21 MT	20 MT*

QUANTITIES PER CONTAINER

* - The weight is stated for 2 layers, both are palletized.

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

Upper pallets may damage first layer bags during transportation and unloading, so we do not recommend to use such type of loading. We bear no responsibility for any damage

Decachem



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

SAFETY DATA SHEET

According to Regulation (CE) 1907/2006 (REACH)

POTASSIUM SULPHATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name:	Potassium sulphate
Chemical name	Potassium sulphate
CAS Number	7778-80-5
REACH Registration Number	01-2119489441-34-0071
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Production of the fertilizer, plant protection products. Use as laboratory reagent, ph regulators, flocculants, precipitants, neutralisation agents, used in dyes and chemicals for textiles, leather and paper.	

1.3 Emergency telephone number

112

SECTION 2: Hazards identification

2.1 Classification of the substance of mixture

Classification according to Regulation (EC) No 1272/2008	Not classified
Precautionary statements	P102: Keep out of reach of children P101: If medical advice is needed, have product container or label at hand
2.2 Label elements	
Hazard Pictogram:	No pictogram
Signal word:	No signal word
Hazard statements:	No known significant effects or critical hazards
Precautionary statements:	Keep out of reach of children. If medical advice is needed, have product container or label at hand
2.3 Other hazards	

The substance does not meet the criteria for PBT/vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

SECTION 3: Composition/ information on ingredients

Chemical name	Chemical	Concentration,	CAS No	EC No	Classification Regulation
---------------	----------	----------------	--------	-------	---------------------------

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

	formula	%			(EC) No. 1272/2008 (CLP)
Potassium sulfate	K_2SO_4	93-95	7778-80-5	231-915-5	Not classified

Decachem



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com**SECTION 4: First aid measures****4.1 Description of first aid measures**

Immediately transport victim from the contaminated area; take deep breaths of fresh air.

In case of aspiration

Move to fresh air. Rinse immediately with plenty of water: mouth, face, eyes. Obtain medical attention if necessary.

In case of ingestion:

Make victim drink plenty of water. Induce vomiting. Get medical attention if symptoms occur.

In case of eye contact:

Rinse out with plenty of water for 15 minutes with the eyelid help wide open. Get medical attention if irritation occurs.

Do not apply neutralizing agents.

In case of skin contact:

Wash off with plenty of water and soap. Take off contaminated clothing.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute and delayed effects:

Not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contract poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media:

Not flammable. Adapt extinguishing media to the environment. Depending on materials stored in the nearest neighbourhood. All extinguishing media products are allowed: water, water/foam, carbon dioxide CO₂, extinguishing powder.

Unsuitable extinguishing media:

No unsuitable extinguishing media know.

5.2 Special hazards arising from the substance or mixture

When heated to decomposition toxic gas fumes of sulfur dioxide are emitted.

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

5.3 Advice for firefighters

Isolate the area by removing all persons from the surrounding of the accident, when a fire broke out. Do not take any action involving any personal risk. Fire fighters should wear appropriate protective equipment and breathing apparatus. This product is not flammable.

Decachem



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Do not take any action that could cause personal risk unless you are properly trained. Do not touch or walk through spillage of material. Wear appropriate personal protective equipment.
For emergency responders	Workwear, respiratory protection (fabric or protective masks with particle filter P2), tight-fitting goggles, gloves.

6.2 Environmental precautions

Should not be released into the environment. When such situation occurs, call the relevant health and environmental protection authorities.

6.3 Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Residues rinse with water.

6.4 Reference to other sections

Information on appropriate personal protective equipment are specified in section 8. Information regarding waste treatment are given in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precaution measures	Wear personal protective equipment. Use of the basic principles of Industrial Hygiene. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation
Advice on general occupational hygiene	Eating, drinking and smoking in areas where the material is handled, stored and processed should be forbidden. Workers should wash hands and face before eating, drinking and smoking.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container. Keep containers in a cool, well-ventilated place. Store away from food and drink.

Warehouse personnel must be equipped with the necessary protective equipment.

7.3 Specific end use(s)

No specific end uses

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

Decachem



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

SECTION 8: Exposure controls/personal protection

8.1 Control parameters		
CAS	Agent	Threshold Limit Value
(-)	dust and powder	10 mg/m ₃
Recommended monitoring procedures: atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.		
8.1.2. Derived No Effect Levels (DNELs) – Workers		
8.1.2.1 ACUTE / SHORT TERM EXPOSURE (SYSTEMIC EFFECT)		
DNEL Dermal	Since no local effects were noted after dermal and inhalatory exposure, local DNELs were not derived.	
DNEL Inhalation		
8.1.2.2. ACUTE / SHORT TERM EXPOSURE (LOCAL EFFECT)		
DNEL Dermal	Since no local effects were noted after dermal and inhalatory exposure, local DNELs were not derived.	
DNEL Inhalation		
8.1.2.3 LONG-TERM EXPOSURE (SYSTEMIC EFFECT)		
DNEL Dermal	21.3 mg/kg bw/day	
DNEL Inhalation	37.6 mg/m ₃	
8.1.2.4 LONG-TERM EXPOSURE (LOCAL EFFECT)		
DNEL Dermal	Since no local effects were noted after dermal and inhalatory exposure, local DNELs were not derived.	
DNEL Inhalation		
8.1.3. Derived No Effect Levels (DNELs) – General population		
8.1.3.1. ACUTE / SHORT TERM EXPOSURE (SYSTEMIC EFFECT)		
DNEL Dermal	The long-term DNEL is considered sufficient to ensure that effects from acute exposure to the substance do not occur.	
DNEL Inhalation		
DNEL Oral		
8.1.3.2. ACUTE / SHORT TERM EXPOSURE (LOCAL EFFECT)		
DNEL Dermal	Since no local effects were noted after dermal and inhalatory exposure, local DNELs were not derived.	
DNEL Inhalation		
8.1.3.3. LONG-TERM EXPOSURE (SYSTEMIC EFFECT)		
DNEL Dermal	12.8 mg/kg bw/day	
DNEL Inhalation	11.1 mg/m ₃	
DNEL Oral	12.8 mg/kg bw/day	
8.1.3.4. LONG-TERM EXPOSURE (LOCAL EFFECT)		
DNEL Dermal	Since no local effects were noted after dermal and inhalatory exposure, local DNELs were not derived.	
DNEL Inhalation		
8.1.4. Predicted No Effect Concentration (PNEC)		
PNEC aqua freshwater	0.68 mg/L (Assessment factor 1000)	
PNEC aqua marine water	0.68 mg/L (Assessment factor 10000)	
PNEC aqua (intermittent releases)	6.8 mg/L (Assessment factor 100)	
PNEC sediment	No or insufficient data	

8.2 Exposure controls

Appropriate engineering controls:

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

Ensure sufficient ventilation, use personal protection equipment.

Individual protection measures:

Decachem



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

Occupation hygiene practices:	After work wash the skin and take of contaminated clothes. Do not eat, drink, smoke or take drugs during the work.
Eye/face protection:	Safety glasses, tight-fitting goggles.
Hand protection:	Protective gloves resistant to chemicals, made of nitrile rubber or other approved by the manufacturer to contact with the product.
Skin protection:	Protective clothing of a compact fabric. Working boots.
Other:	Prior to handling with this product, please select the appropriate footwear and additional skin protection measures, based on the tasks performed and he associated risks. They are subject to approval by the Health and Safety Specialist.
Respiratory protection:	Fabric or protective masks with particle filter P2.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid, fine crystalline
Colour:	Off-white
Odour:	Odourless
Density:	2660 kg/m ³
Bulk density:	1400 kg/m ³
Flammability:	Not flammable
Melting point:	1067 °C
Boiling point:	1689 °C
Solubility in water:	120 g/l (25 °C)
pH (50 g/l H ₂ O/25°C):	7-9

9.2 Other information

Molecular weight: 174,27 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity:	Under normal conditions of storage and use the product is not reactive.
-------------------------	---

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

10.2 Chemical stability	Stable under normal conditions of use
10.3 Possibility of hazardous reactions	No possible reactions
10.4 Conditions to avoid	No specific data
10.5 Incompatible materials	No specific data
10.6 Hazardous decomposition products	On burning: release of toxic and corrosive gase/vapours (sulphur oxides)

Decachem



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	LD ₅₀ (oral, rat) > 2000 mg/kg LC ₀ (inhalation, rat) > 1200 mg/m ³ air LD ₅₀ (dermal, rat) > 2000 mg/kg bw
Skin corrosion/ irritation	No known significant effects or critical hazards.
Serious eye damage/irritation	No known significant effects or critical hazards.
Respiratory or skin sensitization	No known significant effects or critical hazards.
Germ cell mutagenicity	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Reproductive toxicity	No known significant effects or critical hazards.
STOT-single exposure	No known significant effects or critical hazards.
STOT-repeated exposure	No known significant effects or critical hazards.
Aspiration hazard	Not applicable.
Information on likely routes of exposure	Inhalation, skin/eyes, ingestion
Symptoms related to the physical, chemical and toxicological characteristics	<u>Contact with skin</u> : No specific data. <u>Contact of dust with eyes</u> : May cause slight irritation with redness and tearing <u>Inhalation of dust</u> : May cause slight irritation, coughing. <u>Ingestion</u> : of large amounts may cause nausea. <u>Ingestion</u>
Delayed and immediate effects as well as chronic effects from short and long-term exposure	No data
Interactive effects	No data
Other information	No other information

SECTION 12: Ecological information

12.1 Toxicity	Fish: LC ₅₀ (Pimephales promelas)= 680 mg/L/96h. LC ₅₀ (Iepomis macrochirus)= 3550 mg/L/96h. Daphnia: EC ₅₀ (daphnia) =720 mg/L/48h Algae: LC ₅₀ (for freshwater) = 2700mg/L
12.2 Persistence and degradability	Non-biodegradable – inorganic substance .
12.3 Bioaccumulative potential	None.
12.4 Mobility in soil	Soluble in water
12.5 Results of PBT and vPvB assessment	The substance is not PBT not vPvB.
12.6 Other adverse effects	No know significant effects or critical hazards.

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

Decachem



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional authority requirements.

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

SECTION 14: Transport information

	ADR/RID	AND/ADNR	IMDG	IATA
14.1 UN number	Not applicable	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not applicable	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Not applicable	Not applicable	Not applicable	Not applicable
14.6 Special precautions for user	Not applicable	Not applicable	Not applicable	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code. No data				

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Regulation (EC) No. 1907/2006 (REACH)

EU Regulation (EC) No. 1272.2008 (CLP)

Substance is not SVHC, neither listed in Annex XIV or XVII of REACH Regulation

15.2 Chemical safety assessment

Chemical safety assessment has been carried out.

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

Decachem



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

SECTION 16: Other information

List of relevant R phrases, hazard statements, safety phrases and/or precautionary

statements Full text of abbreviated H statements: Not applicable.
--

Full text of classifications CLP/GHS: Not applicable.

A key or legend to abbreviations and acronyms used

REACH	Registration, Evaluation, Authorisation and restriction of CHemicals
-------	--

DNEL	Derived No Effect Level
------	-------------------------

PNEC	Predicted No Effect Concentration
------	-----------------------------------

LC50	Lethal Concentration 50%
------	--------------------------

EC50	Effective Concentration 50%
------	-----------------------------

PBT	Persistent, Bioaccumulative and Toxic
-----	---------------------------------------

VPvB	Very Persistent and Very Bioaccumulative
------	--

SVHC	Substances of Very High Concern
------	---------------------------------

Version 1.0

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is mean to be a description of the safety requirements for our product. It is not to be considered a guarantee of of the product's properties.

DECACHEM DOO, Novi Sad, Serbia

Address: Lozionicka 14/9, 21000 Novi Sad, Serbia ;
PIB: 113353206 Matični broj: 21851396

[Http://www.decachem.com](http://www.decachem.com)



Phones: +381 63 658 074 / +381 64 27 54 268

Email: info@decachem.com

Decachem