



## SAFETY DATA SHEET

Prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures (R.G. 13.12.2014-29204).

Substance/Mixture Name : POTASSIUM SULPHATE  
Prepared Date : 26.01.2021  
New Editing Date : 0  
Avoidance Arrangement : 0  
Sheet Number : AFR 06-07

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### 1. SUBSTANCE/MIXTURE AND COMPANY/DISTRIBUTION IDENTITY

#### 1.1. Substance/Mixture Identity

Chemical Name : Potassium Sulphate

Formulation :  $K_2SO_4$

CAS number : 7778-80-5

EC No : 231-915-5

Other/Commercial Names : Alkim Potassium Sulphate Plus

#### 1.2. Identified uses of substances and mixtures and their non-recommended uses

Agriculture

#### 1.3. Safety data sheet supplier's information

Company Name : Alkim Alkali Kimya A.Ş.

Address : İnönü Cd. No: 13 34437 Taksim/İSTANBUL

Phone : +90212 292 22 66

Fax : +90212 252 76 60

E-Mail : [alkim@alkim.com](mailto:alkim@alkim.com)

SDS Authorized person : İlker Aydoğan

e-mail : [ilker.aydogan@alkim.com](mailto:ilker.aydogan@alkim.com)

Qualification Document Date and Number SDS No : GBF-A-0-3055

#### 1.4. Emergency number

Emergency number : +90 312 796 21 60

National poison consultation center : 114





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## 2. DEFINITION OF HARMFULNESS

### 2.1. Classification of substances and mixtures

This article is not a dangerous class according to the "Regulation on the Classification, Labeling and Packaging of Matter and Mixtures" (R.G.11.12.2013-28848 Repeater).

### 2.2. Tagging Elements

This product does not need to be labeled according to the CLP regulation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 ITEMS

Substance/Compound	EC Number	CAS Number	Concentration	Classification
K <sub>2</sub> SO <sub>4</sub>	231-915-5	7778-80-5	> 95 %	-----

## 4. FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**Respiratory** : Take it to fresh air. The mouth and nose should be washed with water.

**Skin Contact** : Flush with plenty of clean water. Remove contaminated clothing. If you feel bad, contact to Doctor.

**Eye Contact** : Wash eyes with plenty of clean water. If you feel bad, contact to Doctor.

**In case of ingestion** : Plenty of water to drink immediately after ingestion. If you feel bad, contact to Doctor.

### 4.2. Acute and Further Symptoms

**Respiration** : Coughing.

**Skin Contact** : No irritation.

**Eye Contact** : Eye irritation and harm is possible to occur.



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### 4.3. Signs for Medical Intervention and Special Treatment

No information

## 5. FIRE FIGHTING MEASURES

### 5.1. Fire extinguishers

Use dry chemical powder, carbon dioxide, foam or water spray.

### 5.2. Specific losses arising from the substance or mixture

It is not flammable. Sulphur oxides can be released.

### 5.3. Recommendations for fire fighting teams

Avoid inhalation of fire vapours. Special protective equipment for fire fighters should be selected.  
Avoid interfere of underground water and ground water.

## 6. ACCIDENTAL AGRICULTURAL PREVENTION MEASURES

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

The dust mask should be used. P1 filter (according to DIN 3181) is recommended.

### 6.2. Enviromental Measures

Measures to prevent sewage, surface waters, groundwater and soil contamination should be taken.  
Uncontrolled discharges should be prevented to the environment.

Gather the poured product and dispose according to regulations.

### 6.3. Methods and materials for protection and cleaning

Close drain channels. Gather poured product in appropriate package.

### 6.4. References

For disosal of waste information Clause 13 should be checked.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe Handling

Appropriate personal protection equipments should be supplied. After working with the substance, wash your hands. Use in a ventilated enviroment. Change your clothes.

### 7.2. Conditions for safe storage, including disputes



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Store the product in a dry place and without moisture. In dry environment without moisture and storage time in its packaging is unlimited.

### 7.3. Defined final usages

Defined usages of this product are mentioned in Clause 1.2

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

The exposure limit does not contain any content.

### 8.2. Exposure Controls

#### 8.2.1. Appropriate Engineering controls

No need to take special precautions

#### 8.2.2. Personal Protective Equipment

**Eyes** : Protective goggles should be used.

**Skin** : Nitrile rubber gloves should be used. Gloves to be used EC89/686/EEC and the result should conform to Standard EN 374.

**Respiratory** : Dust mask should be used when dust. For recommended filter P1 (in accordance with DIN 3181)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Active Material ( $K_2SO_4$ ) : >95%  
Molecular Weight : 174.26 g/mol  
Appearance : Free-flowing white powder  
Odor : Odorless  
Melting Point : 1069 °C



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pH : 5.5-8.5 (50 g/l @20° C)  
Flammability : The product is not flammable  
Flash Point : Not applicable  
Explosion : Not explosive  
Steam Pressure : Not Applicable  
Density : 2.66 g/cm<sup>3</sup>  
Bulk Density : 1.3-1.7 g/cm<sup>3</sup>  
Solubility in Water : 111 g/L @ 20° C  
Decomposition Temperature : No information available

## 10. STABILITY AND REACTIVITY

### 10.1. Reaction

No data available

### 10.2. Chemical Stability

It is stable under normal ambient conditions and temperature and pressure at the prescribed storage and handling conditions.

### 10.3. Hazardous reaction possibility

No hazardous reaction possibility under normal ambient conditions

### 10.4. Situations to avoid

No data available

### 10.5. Non-conformative materials

Aluminum and metals

### 10.6. Hazardous product

In case of fire, toxical gases or vapors and sulphur oxides might be formed.



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## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxic effects

*Acute oral toxicity*

LD 50 Rat > 6,600 mg/kg body weight (RTECS)

Symptoms: Gastrointestinal may occur in case of high exposure

*Acute Respiratory Toxicity* : This information is not available

*Acute Dermal Toxicity LD50 Rat* : >2,000 mg/kg OECD Test Instructions 402

*Skin irritation* : This information is not available.

*Eye irritation Rabbit Result*: Eye irritation, 7-21 day of recovery. OECD Test Instructions 405

*In Vitro Works* : Cause serious eye irritation. OECD Test Instructions 437

*Sensitivity* : This information is not available.

*Mutagenicity* : Negative. OECD Test Instructions 473

*Carcinogenicity* : This information is not available.

*Reproductive Toxicity* : Oral Rat Method. OECD Test Instructions 422

*Teratogenicity* : This information is not available

*Specific target organ toxicity - Single exposure* : This information is not available.

*Specific target organ toxicity - Repeated exposure* : This information is not available.

*Repeated Dose Toxicity*: Male and Female Rat Daily NOAEL:  $\geq 1,500$  mg/kg LOAEL :  $> 1,500$  mg/kg. OECD Test Instructions 422

*Aspiration Toxicity* : This information is not available.

**Additional Information** : When the product is used properly, there is no possibility to be seen any hazardous effect.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Fish Toxicity



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LC50 Pimephales promelas: 680 mg/l; 96 h (ECHA)

Daphnia and other invertebrates living in water

EC50 Daphnia magna: 720 mg/l; 48 h (ECHA)

Seaweeds Toxicity

LC50 Desmodesmus subspicatus: 2,900 mg/l; 72 h (IUCLID)

### 12.2. Persistence and Decayability

No information available.

### 12.3. Potential for bioaccumulation

As this product is inorganic, there is no bioaccumulation.

### 12.4. Mobility in Soil

No information available.

### 12.5. Results of PBT and vPvB evaluation

PBT / vPvB evaluation; because it does not require or should not be evaluated for chemical safety.

## 13. DISPOSAL CONSIDERATIONS

Dispose of its wastes and waste containers in accordance with national and local regulations. Do not mix it with other wastes. Do not pour into the sewers.

## 14. TRANSPORT INFORMATION

14.1-14.6 RID : Not a dangerous substance according to transport regulations.

14.1-14.6 ADR : Not a dangerous substance according to transport regulations.

14.1-14.6 IMDG : Not dangerous according to transport regulations.

14.1-14.6 IATA-DGR : Not dangerous according to transport regulations.

## 15. REGULATORY INFORMATION

This substance is; Have not been classified as dangerous according to the Regulation on Classification, Labeling and Packaging of Ingredients and Mixtures (R.G.11.12.2013-28848 Repeater).



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### 16. OTHER INFORMATION

Source

Regulation on Safety Data Sheets for Hazardous Substances and Mixtures (R.G. 13.12.2014-29204)

Regulation on the Labeling and Packing of Classification of Ingredients and Mixtures (R.G.11.12.2013-28848)

ECHA <http://echa.europa.eu/information-on-chemicals/registered-substances>

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