

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

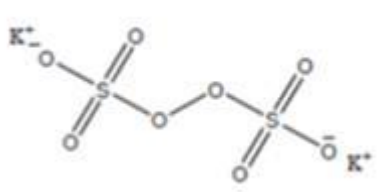
## POTASSIUM PERSULFATE

 Version: 1.0  
 Form No: 193257

 Preparation Date : 10/30/2013  
 Revision Date: 10/30/2013

### 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

<b>Product Name</b>	<b>POTASSIUM PERSULFATE</b>
<b>SDS<sup>1</sup> No</b>	193257
<b>CAS<sup>2</sup> No</b>	7727-21-1
<b>EINECS<sup>3</sup> No</b>	231-781-8
<b>Chemical Name</b>	dipotassium peroxodisulphate
<b>Chemical Formula</b>	K <sub>2</sub> O <sub>8</sub> S <sub>2</sub> = K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>
<b>Structural Formula</b>	

#### 1.2 Relevant Identified Uses Of The Product And Uses Advised Against

<b>Relevant Identified Uses</b>	Used as oxidizing agent and catalyst in the production of various chemical substances.
<b>Uses Advised Against</b>	See chapter 16 for a general overview

#### 1.3 Details Of The Supplier Of The Safety Data Sheet

<b>Supplier (Manufacturer)</b>	<b>AK-KİM KİMYA SAN. VE TİC. A.Ş.</b> <a href="http://www.akkim.com.tr">www.akkim.com.tr</a>
<b>Address – Factory</b>	Denizçalı Köyü, Taşköprü Mevkii, P.K. 39 77600 Yalova / TÜRKİYE
<b>Telephone</b>	0 226 815 33 00
<b>Fax</b>	0 226 353 25 39

#### 1.4 Information Providing Authority About Safety Data Sheet

	Ali Haydar KETİR – Environmental Engineer
<b>Telephone</b>	+90 (226) 815 33 00 / 33304
<b>Fax</b>	<a href="mailto:ali.ketir@akkim.com.tr">ali.ketir@akkim.com.tr</a>

#### 1.5 Emergency Telephone Number

<b>Company Emergency</b>	0 226 815 33 00
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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification Of The Product

##### 2.1.1 Classification According to Regulation (EC) No 1272/2008

- Oxidising solids, Category 3; H272
- Acute toxicity, Category 4, oral; H302
- Eye irritation, Category 2; H319
- Specific Target Organ Toxicity (single exposure), Category 3; H335
- Skin irritation, Category 2; H315
- Respiratory sensitisation, Category 1; H334
- Skin sensitisation, Category 1; H317

#### 2.2 Label elements

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

### 2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP<sup>4</sup>/GHS<sup>5</sup>]

#### Product Identifier

Hazard Component for Labeling

· POTASSIUM PERSULFATE

#### Hazard Pictograms



#### Signal Word

· Danger

#### Hazard Statements

**H272** May intensify fire; oxidiser.

**H302** Harmful if swallowed.

**H315** Causes skin irritation.

**H317** May cause an allergic skin reaction.

**H319** Causes serious eye irritation.

**H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**H335** May cause respiratory irritation.

#### Precautionary Statements

##### General

· None

##### Prevention

**P210** Keep away from heat/sparks/open flames/hot surfaces. No smoking.

**P221** Take any precaution to avoid mixing with combustibles

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

##### Response

**P302+P352** IF ON SKIN: Wash with plenty of soap and water.

**P304+P341** IF INHALED: If breathing is difficult, 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.

##### Storage

· None

##### Disposal

· None

#### Supplemental Hazard Information (EU) Statements

· None

### 2.2.2. Special Rules For Supplemental Label Elements For Certain Mixtures

· None.

### 2.2.3. Additional Labeling

· Not Applicable

### 2.3 Hazard Identification

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

 Version: 1.0  
 Form No: 193257

 Preparation Date : 10/30/2013  
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### 2.3.1. Skin Contact

May be harmful if absorbed through skin. Causes skin irritation.

### 2.3.2. Eye Contact

Causes eye irritation.

### 2.3.3. Ingestion

Harmful if swallowed.

### 2.3.4. Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

### 2.3.5. Long term effects

Inhalation of DMF for a long time or its accumulation in the body by several absorptions through the skin may lead to important diseases. These diseases appear as nausea, gastro-intestinal cramps and irritation of esophagus.

### 2.3.6. Adverse Environmental Effects




No data available

### 2.4. Additional Information

· None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Description Of The Substance: dipotassium peroxodisulphate ( > 99%)

NAME	EINECS NO	CAS NO.	CONTENT (%)	CLASSIFICATION
				CLP
dipotassium peroxodisulphate	231-781-8	7727-21-1	> 99	   <b>DANGER</b> Oxidising solids, Category 3; H272 Acute toxicity, Category 4, oral; H302 Eye irritation, Category 2; H319 Specific Target Organ Toxicity (single exposure), Category 3; H335 Skin irritation, Category 2; H315 Respiratory sensitisation, Category 1; H334 Skin sensitisation, Category 1; H317

### 3.2 Additional information

· None

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### 4.1.1 General information

- Remove contaminated clothing.
- In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### 4.1.2 Following inhalation

- Whilst protecting yourself remove the casualty from the hazardous area and take him to the fresh air.
- In the case of breathing difficulties have the casualty inhale oxygen.
- Arrange medical treatment.

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

- After inhalation of products of combustion:  
As soon as possible repeatedly have the casualty deeply breath a glucocorticoid inhalation spray in.

### 4.1.3 Following skin contact

- Remove contaminated clothing while protecting yourself.
- Rinse the affected skin areas for 10 minutes under running water.
- Under no circumstances use alcohol, gasoline or other solvents.
- In cases of extensive contact after rapid cleansing (1 - 2 min) immediately:  
Whilst protecting yourself, relocate the casualty away from the source of danger.
- In the safe place immediately cleanse further, then:  
Lay the casualty down in a quiet place and protect him against hypothermia.
- In the meantime call a doctor on emergency service to the scene of the accident.
- Under no circumstances leave contaminated clothing on the accident victim.

### 4.1.4 Following eye contact

- Rinse the affected eye with widely spread lids for 10 minutes under running water whilst protecting the unimpaired eye.
- Following the rinsing immediate transport to an eye doctor or into an hospital is necessary.

### 4.1.5 Following ingestion

- Rinse the mouth and spit the fluids out.
- Let the casualty drink 1 - 2 glass of water.
- Apply charcoal (3 tablespoons as a suspension in a glass of water).
- Arrange medical treatment.
- Should vomiting occur, hold the head of the casualty in a low-lying position (danger of aspiration).

### 4.1.6 Self-protection of the first aider

- Pay attention to self-protection

### 4.1.7 Notes for the doctor

- No data available

## 5. FIRE-FIGHTING MEASURES

### 5.1 General Information and Flammable Properties

- The substance/product is non-combustible

### 5.2 Extinguishing media:

- Water (spray - not splash)
- Dry extinguishing powder
- Carbon dioxide
- Alcohol resistant foam.
- Cool all affected containers with flooding quantities of water.

### 5.3 Unsuitable extinguishing media

- None known.

### 5.4 Special hazards arising from the product

- Sulfur oxides
- Dipotassium oxide

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According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

### 5.5 Advice for fire-fighters

- Wear NIOSH<sup>6</sup> approved breathing apparatus, eye and face protector and chemical resistant clothes.
- Cool surrounding containers with water spray.
- If possible, take container out of dangerous zone.
- Rise in pressure and risk of bursting when heating.
- Shut off sources of ignition.
- Beware of backfire.
- Do not allow runoff to get into the sewage system.

### 5.6 Additional information

- Use water spray to cool unopened containers.
- Contaminated extinguishing water must be disposed of in accordance with official regulations
- Do not allow the quenching water into sewage systems

## 6. ACCIDENTAL RELEASE MEASURES

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

- Avoid breathing vapors, mist or gas
- Ensure adequate ventilation.
- Shut off all sources of ignition.
- Evacuate personnel to safe areas
- Refer to protective measures listed in section 7 and 8.
- Put on protective equipment before entering danger area.

### 6.2 Environmental precautions

- Cover drains.
- Do not allow to enter into soil/subsoil.
- Do not empty into drains or the aquatic environment.

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

#### 6.3.1 For containment

- Control personal contact by using protective equipment as required
- Take up contaminated material and pass on for further processing.
- Contain for disposal according to local / national regulations.

#### 6.3.2 For cleaning up

- Use protective equipment while cleaning if necessary.
- Use electrically protected vacuum cleaner or by wet-brushing.
- Only conduct maintenance and other work on or in the vessel or closed spaces after obtaining written permission.
- Only work with vessels and lines after they have been thoroughly rinsed.

#### 6.3.3 Other information

- Dispose of waste material according to local, state and federal regulations.

### 6.4 Reference to other sections

- Dispose of contaminated material as waste in accordance with section 13.
- See Section 13.

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

### 7. HANDLING AND STORAGE

#### 7.1.1 Precautions for safe handling

#### 7.1.2 Protective measures

##### Personal preventions

- Depending on the risk, wear a tight, long apron and boots or suitable chemical protection clothing.
- Use in a well-ventilated area.
- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

##### Fire preventions

- The substance/product is non-combustible
- See section 5.

##### Environmental precautions:

- Dispose of waste material according to local, state and federal regulations.

#### 7.1.3 Advice on general occupational hygiene

- Use good occupational work practice.
- Comply with the health and safety at work laws.
- Remove contaminated clothing and protective equipment before entering eating areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool place, Max temperature 50 C. Keep container dry.
- Keep container in a well-ventilated place
- Store in original containers.
- Check all containers are clearly labelled and free from leaks.
- Keep containers securely sealed when not in use
- Avoid contact with incompatible materials
- Avoid physical damage to containers.

#### 7.1 Advice on common storage

- Do not use any food containers - risk of mistake.
- Containers have to be labelled clearly and permanently.
- Store in the original container as much as possible.
- Keep container tightly closed.
- Store in a cool place.
- Store in a dry place.

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

- *Keep container in a well-ventilated place.*

### 7.2 Specific precautions on storage

- *Storage class 5.1 B (Oxidizing substances)*
- *Only substances of the same storage class should be stored together.*
- *Collocated storage with the following substances is prohibited:*
  - *Pharmaceuticals, foods, and animal feeds including additives.*
  - *Infectious, radioactive und explosive substances.*
  - *Gases.*
  - *Aerosols (spray bottles).*
  - *Other explosive substances of storage class 4.1A.*
  - *Spontaneously flammable substances.*
  - *Substances liberating flammable gases in contact with water.*
  - *Organic peroxides and self reactive substances.*
- *Under certain conditions the collocated storage with the following sub-stances is permitted (For more details see TRGS 510):*
  - *Flammable liquids of storage class 3.*
  - *Flammable solid substances or desensitized substances of storage class 4.1B.*
  - *Ammonium nitrate and preparations containing ammonium nitrate.*
  - *Combustible and non combustible acutely toxic substances of storage classes 6.1A and 6.1B.*
  - *Combustible toxic or chronically acting substances of storage class 6.1C.*
  - *Noncombustible toxic or chronically acting substances of storage class 6.1D.*
  - *Combustible corrosive substances of storage class 8A.*
  - *Combustible liquids of storage class 10.*
  - *Combustible solids of storage class 11.*
- *The substance should not be stored with substances with which hazardous chemical reactions are possible.*

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

*Preventive industrial and medical examinations must be carried out according to the application area.*

*Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.*

#### 8.1.1 Occupational exposure limits

- *ACGIH: 0,1 mg/m<sup>3</sup> (TWA)*

### 8.2 Exposure controls

- *Adequate ventilation should be used during processing*

#### 8.2.1 Appropriate engineering controls:

- *Provide local exhaust ventilation.*
- *In the immediate working surroundings there must be: Emergency shower installed.*
- *Make available sufficient washing facilities.*
- *Provide eye shower and label its location conspicuously.*

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

· See Section 7

### 8.2.2 Personal protection equipment

#### 8.2.2.1 Eye / Face protection:

- Safety glasses with side shields.
- Chemical goggles approved under government standards such as NIOSH (US) or EN 166(EU)
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation
- Lens should be removed in a clean environment only after workers have washed hands thoroughly.



#### 8.2.2.2 Skin protection

##### Hand protection

- Use protective gloves. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location. Pay attention to skin care.
- Skin protection cremes do not protect sufficiently against the substance.
- Textile or leather gloves are completely unsuitable.
- The following information is valid for aqueous, saturated solutions of the substance.
- The following materials are suitable for protective gloves (Permeation time  $\geq$  8 hours):
  - Natural rubber/Natural latex - NR (0,5 mm) (use non-powdered and allergen free products)
  - Polychloroprene - CR (0,5 mm)
  - Nitrile rubber/Nitrile latex - NBR (0,35 mm)
  - Butyl rubber - Butyl (0,5 mm)
  - Fluoro carbon rubber - FKM (0,4 mm)
  - Polyvinyl chloride - PVC (0,5 mm)
- The times listed are suggested by measurements taken at 22 °C and constant contact. Temperatures raised by warmed substances, body heat, etc. and a weakening of the effective layer thickness caused by expansion can lead to a significantly shorter breakthrough time. In case of doubt contact the gloves' manufacturer. A 1.5-times increase / decrease in the layer thickness doubles / halves the breakthrough time. This data only applies to the pure substance. Transferred to mixtures of substances, these figures should only be taken as an aid to orientation.



##### Body protection

- Depending on the risk, wear a tight, long apron and boots or suitable chemical protection clothing.
- Wear flameproof protective clothing.



# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

- The protection clothing should be solvent resistant.

### Other protection

- Handle in accordance with good industrial hygiene and safety practice.

### 8.2.2.3 Respiratory protection

- Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn. Consider the maximum period for wear.
- Respiratory protection: Particle filter P2 or P3, colour code white.
- Use insulating device for concentrations above the usage limits for filter devices, for oxygen concentrations below 17% volume, or in circumstances which are unclear.



### 8.2.3 Environmental exposure controls

- Legislation for the protection of the environment must be met in full.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Appearance

Form/Physical state	Powder
Color	White
Odor	Odorless
	Value
pH ( %5 in water solution) @ (20°C)	3,0-7,0
Melting/Freezing point/range (°C)	No data available
Decomposition temperature (°C)	100
Flash Point (°C)closed cup	Not flammable
Auto Ignition temperature (°C)	No data available
Viscosity cSt @ 40 °C	No data available
Relative Density g/cm3 @25 °C	2,48
Vapour Density (Air=1)	No data available
Oxidizing properties	The substance or mixture is classified as oxidizing with the subcategory 3.
Solubility in water g/l @ 20°C	60 g/l @ 20°C 170 g/l @ 50°C
Partition coefficient n-Octanol/Water (log Po/w)	No data available
Vapour Pressure	No data available

**Note:** The above features were determined according to prescribed methods at the Classification, Packaging and Labeling of Hazardous. Substances Regulation Section A-3 or a method comparable to the other.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

- No data available

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

### 10.2 Chemical stability

- Unstable. Gradually decomposes losing oxygen. Decomposes more rapidly at higher temperatures.
- Stability decreases in the presence of moisture. Metals other than stainless steel are apt to cause decomposition of persulfate solutions.

### 10.3 Possibility of hazardous reactions

- Reacts violently with reducing agents, often under ignition. Mixtures with combustible substances can burn without air supply. The reaction with alkali hydrides is violent.
- The substance can react dangerously with: alkali hydroxides; combustible substances; water -> oxygen; reducing agents

### 10.4 Conditions to avoid:

- Moisture, heat, flame, ignition sources, shock, friction, incompatibles.

### 10.5 Incompatible materials:

- The substance can react dangerously with: Alkali hydroxides; combustible substances; water -> oxygen; reducing agents

### 10.6 Hazardous decomposition products:

- Oxygen
- Sulfur oxides
- Dipotassium oxide

### 10.7 Hazardous polymerization:

- None.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 General Information

- Routes of exposure:
- - During occupational handling of sodium metabisulfite (S.) exposure is to be expected via the inhalative and dermal intake pathways.

### 11.2 Acute toxicity

#### Oral:

- Type of value: LD50
- Species: rat
- Value: 802 mg/kg

### 11.3 Skin corrosion/irritation and Eye damage/irritation:

#### Skin:

- No data available
- Eye:
- No data available
- Sensitization:
- May cause allergic respiratory and skin reactions.

### 11.4 CMR effects (Carcinogenity) :

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

### 11.5 CMR effects (Mutagenicity and Toxicity for reproduction) :

- No data available

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

### 11.6 Other Toxicological Effects:

Allergic Effects	May cause allergic reactions depends on sensitization
Effects on Repeated Doses Chronic Exposures	May cause allergic reactions depends on sensitization and asthma.
Sensitization	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
Developmental Toxicity (Teratogenicity)	No data available concerning teratogenic effects. The chemical structure does not suggest such an effect.
Fertility	No data available

### 11.7 STOT-single/repeated exposures:

STOT-single exposure	No data available
STOT-repeated exposure	No data available

### 11.8 Symptoms related to the physical, chemical and toxicological characteristics:

In case of inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
In case of skin contact	May be harmful if absorbed through skin. Causes skin irritation.
In case of eye contact	Causes eye irritation.
In case of ingestion	Harmful if swallowed.

### 11.9 Additional Toxicological Information:

- Toxicological classifications are based on available knowledge and information
- EEC classification: Harmful.
- The special effects to health are considered by taking into account the information in section 3.
- RTECS: SE0400000

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity:

- Acute Fish Toxicity (LC50 96 hour): 100 mg/l (*Poecilia reticulata*)
- Acute Crustaceans Toxicity (LC50 48 hour): 251 mg/l
- Acute Daphnia Toxicity (EC50 24 hour): 357 mg/l (*Daphnia Magna*)
- Acute Aquatic Invertebrates Toxicity (LC50): 36 mg/l (*Pseudomonas putida*)

### 12.2 Photo degradation

No data available

### 12.3 Effects on Waste Water Treatment Plants

Not determined.

### 12.4 Mobility

Solid, Soluble

Refer to ecotoxicity.

Water threat class	No data available
Clean Water Impact	No data available
Known or predicted environmental distribution	No data available

### 12.5 Results of PBT and vPvB assessment

Biotic	
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# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

Ready biodegradability:	No data available
Abiotic:	
Hydrolysis as a function of pH:	No data available
Photolysis:	No data available
Atmospheric oxidation:	No data available
<b>Persistence and degradability:</b>	
Decomposition Potential of the products	No data available
The half-life of degradation	No data available
Potential degradation of product content in the evaluation of wastewater treatment plants	No data available
<b>Bioaccumulation Potential :</b>	
Biological environment (biota) accumulation potential	No data available
Potential - nutrients pass through	No data available
Reference Values - Log Kow , Sw and BCF	No data available
<b>12.6 Additional information</b>	
See the sections 6, 7, 13, 14 and 15.	

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Product / Packaging disposal

- This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
- Note that properties of a material may change in use, and recycling or reuse may not always be appropriate
- When recycling of the product is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended.
- Disposal according to local authority regulations.
- Contact waste disposal services

#### 13.2 Contaminated packaging

- If there is product residue in the emptied container, follow directions for handling on the container's label.
- Contaminated packaging must be emptied of all residues and can be recycled following appropriate cleaning.

#### 13.3 Disposal Methods

- Collection of small amounts of substance:  
Convert into a less harmful reduction product by introducing in a sodium thiosulfat solution, if necessary under acidification.  
Place in collecting containers for salt solutions, adjust for a pH value of 6 - 8, or place in collecting containers for toxic anorganic residues as well as heavy-metal salts and their solutions.
- Collection vessels must be clearly labelled with a systematic description of their contents. Store the vessels in a well-ventilated location. Entrust them to the appropriate authorities for disposal.

#### 13.4 European Waste Catalogue

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE





 Version: 1.0  
 Form No: 193257

 Preparation Date : 10/30/2013  
 Revision Date: 10/30/2013

- The final classification has to be done together with the local waste disposal company / authority.

### 14. TRANSPORT INFORMATION

#### UN 1492, POTASSIUM PERSULPHATE

	ADR <sup>7</sup> /RID <sup>8</sup>	ADNR9	IMDG <sup>10</sup>	ICAO <sup>11</sup> /IATA <sup>12</sup>
<b>TRANSPORTATION</b>	Road	River	Marine	Airways
<b>PROPER SHIPPING NAME</b>	UN 1492, POTASSIUM PERSULPHATE			
<b>UN/ID No.</b>	1492	1492	1492	1492
<b>SYMBOL</b>				
<b>CLASS</b>	5.1	5.1	5.1	5.1
<b>PACKAGING GROUP</b>	III	III	III	III
<b>LABELLING NO</b>	5.1			
<b>CLASSIFICATION CODE</b>	O2	O2	O2	O2
<b>HAZARD NO (HIN NO)</b>	50			
<b>EmS</b>			F-A;SQ	
<b>MARINE Pollutant</b>			NO	

Road Transport Notes: Passage forbidden through tunnels of category E.

### 15. REGULATORY INFORMATION

#### 15.1 Safety, Health And Environmental Regulations / Legislation Specific For The Substance

Substance is found on the following regulatory lists;:

- "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)"

#### 15.2 Chemical Safety Assessment

No data available

##### 15.2.1 HAZARD

CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)

- May intensify fire; oxidiser.
- Harmful if swallowed.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause respiratory irritation.

##### 15.2.2 RISK

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

- Contact with combustible material may cause fire.
- Harmful if swallowed.
- Irritating to eyes, respiratory system and skin.
- May cause sensitisation by inhalation and skin contact.

### 15.3 INTERNATIONAL REGULATIONS

- This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and ISO 11014:2009. This product is classified according to EU Directive 67/548/EC and GHS/CLP.

## 16. OTHER INFORMATION

### 16.1 Other information

- For additional information regarding **AK-KIM KIMYA SAN. VE TIC. ŞTİ.** products please contact the **AK-KIM KIMYA SAN. VE TIC. A.S** Vedat Ateşoğlu - [vatesoglu@akkim.com.tr](mailto:vatesoglu@akkim.com.tr)
- The above information complies with the 199/45/EC and 1907/2006 Directives and their amendments.
- In all cases of potential poisoning supportive therapy is of the utmost importance.

### 16.2 Related Person

- Vedat Ateşoğlu - [vatesoglu@akkim.com.tr](mailto:vatesoglu@akkim.com.tr) Ak-Kim Kimya San. Ve Tic. A.Ş
- Prepared by : Ali Haydar KETİR - Ak-Kim Kimya San. Ve Tic. A.Ş [ali.ketir@akkim.com.tr](mailto:ali.ketir@akkim.com.tr)
- **Competent Person Accreditation no : TSE GBF-0855 28.07.2011**

### 16.3 Revision Date, Version and SDS no

- Date : October 30, 2013
- Version : 1.0
- MSDS No : 193257

### 16.4 Reason of re-issue

- Compiling according to Regulation (EC) No 1272/2008

### 16.5 Relevant R-, H- and EUH-phrases (number and full text):

<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H319</b>	Causes serious eye irritation.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H335</b>	May cause respiratory irritation.

### 16.6 Legal disclaimer

# Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

## POTASSIUM PERSULFATE

Version: 1.0  
Form No: 193257

Preparation Date : 10/30/2013  
Revision Date: 10/30/2013

- *The purpose of the above information is to describe the products only in terms of health and safety requirements.*
- *The information given should not, therefore, be construed as guaranteeing specific properties or as specification.*
- *Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.*
- *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 above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.*
- *The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.*

<sup>1</sup> SDS: Safety Data Sheet

<sup>2</sup> CAS: Chemical Abstract Service

<sup>3</sup> EINECS: European INventory of Existing Commercial

<sup>4</sup> CLP: Classification Labelling and Packaging

<sup>5</sup> GHS: Global Harmonised System

<sup>6</sup> NIOSH: National Institute of Occupational Safety and Health( Ulusal İş Sağlığı ve Güvenliği Enstitüsü)

<sup>7</sup> ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

<sup>8</sup> RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

<sup>9</sup> ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways

<sup>10</sup> IMDG: International Maritime Code for Dangerous Goods

<sup>11</sup> ICAO: International Civil Aviation Organization

<sup>12</sup> IATA: International Air Transport Association