

## POTASSIUM PERSULPHATE

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** POTASSIUM PERSULPHATE  
**Product Code:** 5091  
**CAS#:** Not available  
**Synonym:** Not available  
**Chemical Name:** Not available  
**Chemical Formula:** Not available  
**Formula Weight:** Not available

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:**

**Name:** Potassium Persulphate

**Toxicological Data on Ingredients:**

Ox. Sol. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; Skin Sens.1; STOT SE 3; H272, H302, H315, H319, H334, H317, H335

### SECTION 3: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008

Oxidizing solids (Category 3), H272

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Respiratory sensitization (Category 1), H334

Skin sensitization (Category 1), H317

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

**Acute Toxicity:** Acute toxicity, Oral (Category 4), H302

**Chronic Toxicity:**

**Carcinogenic Effects:** Not Available

**Mutagenic Effects:** Not Available

**Teratogenic Effects:** Not Available

**Developmental Toxicity:** Not available.

### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. WARM water MUST be used. Get medical attention if irritation occurs

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops

**Serious Skin Contact:** Not available

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention

**Serious Inhalation:** Not Available

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available



## SECTION 5: FIRE FIGHTING MEASURES

### Extinguishing media

#### Suitable extinguishing media :

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Special hazards arising from the substance or mixture

Sulfur oxides

Potassium oxides

Container explosion may occur under fire conditions.

Not combustible.

Has a fire-promoting effect due to release of oxygen.

Ambient fire may liberate hazardous vapours.

**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system

## SECTION 7: HANDLING AND STORAGE

**Precautions:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents

**Storage conditions:** Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Do not store near combustible materials.

Moisture sensitive.

**Storage Class:** Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.

**Personal Protection in Case of a Large Spill:** Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Solid
Colour	:	White
Odor	:	Not available
Taste	:	Not available
Color	:	Not available
Molecular Weight	:	Not available



PH	:	Not available
Boiling Point	:	Not available
Melting Point	:	100 °C - lit.
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** The product is chemically stable under standard ambient conditions (room temperature)

**Instability Temperature:** Not available

**Conditions of Instability:** Exposure to moisture. Heat.

**Incompatibility with various substances:** Not available

**Corrosivity:** Not available.

**Special Remarks on Reactivity:** Not available

**Special Remarks on Corrosivity:** Not available

**Possibility of hazardous reactions:** Risk of ignition or formation of inflammable gases or vapours with:

Exothermic reaction with:

Reducing agents

combustible substances

Sodium hydroxide

Potassium hydroxide

alkali hydroxides

Water

**Polymerization:** Not available

### SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of Entry:** Inhalation, Ingestion

**Toxicity to Animals:**

LD50 Oral - Rat - female - 700 mg/kg

The value is given in analogy to the following substances: Ammonium peroxodisulphate

LC50 Inhalation - Rat - male and female - 4 h -  $\geq$  2,95 mg/l

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Ammonium peroxodisulphate

Inhalation: Irritating to respiratory system.

LD50 Dermal - Rat - male and female -  $>$  2.000 mg/kg

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Ammonium peroxodisulphate

**Chronic Effects on Humans:** Not available

**Other Toxic Effects on Humans:** Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Remarks on Toxicity to Animals:** Not available

**Special Remarks on Chronic Effects on Humans:** Not available

**Special Remarks on other Toxic Effects on Humans:** Not available

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity:

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 76,3 mg/l - 96 h

Remarks: (in analogy to similar products)

Toxicity to daphnia static test EC50 - Daphnia magna (Water flea) - 120 mg/l - 48 h

and other aquatic  
invertebrates

The value is given in analogy to the following substances: Ammonium peroxodisulphate

Toxicity to algae static test ErC50 - Phaeodactylum tricornutum - 320 mg/l - 72 h

Toxicity to bacteria static test EC50 - Pseudomonas putida - 36 mg/l - 18 h

**BOD and COD:** Not available

**Products of Biodegradation:** Not available

**Toxicity of the Products of Biodegradation:** Not available

**Special Remarks on the Products of Biodegradation:** Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## SECTION 14: TRANSPORT INFORMATION

### UN number:

ADR/RID: 1492

IMDG: 1492

IATA: 1492

### UN proper shipping name

ADR/RID: POTASSIUM PERSULPHATE

IMDG: POTASSIUM PERSULPHATE

IATA: POTASSIUM PERSULPHATE

### Transport hazard class(es):

ADR/RID: 5.1

IMDG: 5.1

IATA: 5.1

### Packaging group:

ADR/RID: III

IMDG: III

IATA: III

### Environmental hazards:

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

## SECTION 15: REGULATORY INFORMATION

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical Safety Assessment:** For this product a chemical safety assessment was not carried out

## SECTION 16: OTHER INFORMATION

### References: Full text of H AND R-Statements

H272 May intensify fire; oxidizer.

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.

**Other Special Considerations:** Not available

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