

Section 1. Product and Company Identification

**Product Name** Potassium Sorbate  
**CAS Number** 24634-61-5

**Parchem - fine & specialty chemicals**  
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Section 2. Hazards Identification

**Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**

Skin irritation, Category 2, H315  
Eye irritation, Category 2, H319

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Xi; R36/38

**Label elements**  
**Labelling ES (67/548/EEC, 1999/45/EC)**  
**Symbol:** Xi Irritant

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard Statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary Statements**

P280 Wear protective gloves/protective clothing/eye protection  
P264 Wash hands thoroughly after handling



P305 + P351 + P338 IF IN EYES-Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+313 If skin irritation occurs: Get medical advice  
P337+313 If eye irritation occurs: Get medical advice

**Other Hazards:** None known.

### Section 3. Composition / Information on Ingredients

**Common Name** Potassium Sorbate  
**Synonym(s)** 2,4-Hexadienoic acid, potassium salt; Sorbic acid, potassium salt  
**Formula**  $C_6H_7KO_2$   
**CAS Number** 24634-61-5

COMPONENT	CAS NUMBER	CONCENTRATION
Potassium Sorbate	24634-61-5	100%

### Section 4. First Aid Measures

#### Description of first-aid measures

**General Information:** Instantly remove any clothing soiled by the product.

**Inhalation:** Supply fresh air and call for doctor for safety reasons.

**Skin Contact:** Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

**Eye Contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

**Ingestion:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; instantly call for medical help.

**Most important symptoms and effects, both acute and delayed:** Irritant effects

**Indication of immediate medical attention and special treatment needed:** No information available.

### Section 5. Firefighting Measures

#### Extinguishing media

**Suitable extinguishing media:** Water spray, Carbon dioxide ( $CO_2$ ), Dry chemical, chemical foam.

**Unsuitable extinguishing media:** None in particular.

**Special hazards arising from the substance or mixture:** Combustible material. Risk of dust explosion. Development of hazardous combustion gases or vapors possible in the event of fire.

**Advice for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away. Avoid causing dust. Keep away from ignition sources.

**Environmental precautions:** Do not allow product to reach sewage system or water bodies.

**Methods and materials for containment and cleaning up:** Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment. Clean up affected area. Avoid generation of dusts

### Reference to other sections

Indications about protective equipment See Section 8.

Indications about waste treatment See Section 13.

## Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Do not ingest.

**Conditions for safe storage, including any incompatibilities:** Keep in a dry and well-ventilated place. Keep container tightly closed. Store only in the original container. Store at 15 to 25°C. Store away from oxidizing agents.

## Section 8. Exposure Controls / Personal Protection

### Control parameters

**Exposure limits:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL):** No information available.

**Predicted No Effect Concentration (PNEC):** No information available.

### Exposure controls

**Engineering Measures:** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

**Eye Protection:** Safety glasses

**Hand Protection:** Protective gloves

**Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls:** Do not empty into drains.

Section 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

**Form:** Powder, Solid

**Color:** White

**Odor:** Odorless

**Odor Threshold:** No information available.

**pH (1.400 g/l, 20°C):** 8 - 11

**Vapor Pressure:** No information available.

**Vapor Density:** No information available.

**Boiling Point/Range:** No information available.

**Melting Point/Range:** No information available.

**Decomposition temperature:** 270°C

**Flash Point:** No information available.

**Inflammability (solid, gaseous):** Product is not inflammable.

**Water Solubility:** 58.2 % (20°C)

**Segregation coefficient (n-octanol/water):** 1.33 log POW (calc.)

**Viscosity**

**Dynamic:** No information available.

**Kinematic:** No information available.

**Specific Gravity:** 1.363

**Other data**

**Ignition temperature:** >150°C

**Bulk density:** ca. 370 kg/m<sup>3</sup>

Section 10. Stability and Reactivity

**Reactivity:** Risk of dust explosion

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous Reactions: Violent reactions possible with oxidizing agents.

**Conditions to avoid:** Incompatible products; Strong heating.

**Incompatible materials:** Al, Sn, Zn; Strong oxidizing agents.

**Hazardous decomposition products:** Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

Section 11. Toxicological Information

**Information on Toxicological Effects**

**Acute oral toxicity:** LD50 (rat) = 3800 mg/kg



**Acute inhalation toxicity**

**Symptoms:** Slight mucosal irritations.

**Skin irritation:** Causes Skin irritation.

**Eye irritation:** Rabbit, causes serious eye irritation (OECD405).

**Genotoxicity in vitro**

**Ames test:** salmonella typhimurium-negative (IUCLID)

**Specific target organ toxicity-single exposure:** The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity-repeated exposure:** The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard:** No aspiration toxicity classification.

**Further Information:** Hazardous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.

Section 12. Ecological Information

**Toxicity**

**Toxicity to fish:** LC50/96 h= 1250 mg/L (Danio rerio(zebra fish)) (OECD 203)

**Toxicity to daphnia and other aquatic invertebrates:** EC50/48 h =750 mg/L (daphnia magna (water flea)) (OECD 202)

**Toxicity to bacteria:** EC0/16h>1000 mg/L (Pseudomonas putida) (DIN 38421 TEIL 8(IUCLID))

**Persistence and degradability:** Readily degradable

**Bioaccumulative potential:** Not worth-mentioning accumulating in organisms.

**Mobility in soil:** No information available.

**Results of PBT and vPvB assessment:** PBT/ vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other adverse effects:** Additional ecological information. Do not allow product to reach ground water, water bodies or sewage system or soil.

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Not classified as dangerous in the meaning of transport regulation.

**IMDG/IMO:** Not regulated

**ADR:** Not regulated

**IATA:** Not regulated



Section 15. Regulatory Information

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

**Labelling according to Regulation (EC) No 1272/2008:** The substance is classified and labelled according to the CLP regulation.

**National regulations**

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**Chemical Safety Assessment:** A Chemical Safety Assessment has not been carried out.

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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