



## Specification

**Product Name:** Potassium Sorbate  
**Product Code:** SPEC0049  
**Chemical Formula:**  $C_6H_7O_2K$   
**EINECS:** 246-376-1  
**Molecular Weight** 150.22

### Description:

Our Potassium Sorbate is a premium quality, refined crystalline salt and is the potassium salt of Sorbic Acid. Its main function is to inhibit the growth of mould, yeast and microbes, which in turn increases the shelf life of food products. It can be used in many foods such as cheese, soft/fruit drinks, wine, dried meat, dried fruits, yogurt, apple cider, wine and baked goods. Potassium Sorbate is not suitable for bread making or baked products which use yeast. In wine Potassium Sorbate produces Sorbic Acid which stops any surviving yeast from multiplying once the final racking of the wine is completed. It can also be used to clarify and prevent refermentation in apple cider and sweetened and sparkling wine.

### Specifications:

| Item                          | Standard                              |
|-------------------------------|---------------------------------------|
| Identification                | Conforms to standard                  |
| Assay (On dried basis)        | ≥ 99%                                 |
| Heat stability                | No change in colour (105°C, 90 mins)  |
| Melting range for Sorbic Acid | 133°C - 135°C                         |
| Test for potassium            | Passes test                           |
| Test for double bonds         | Passes test                           |
| Loss on drying                | ≤ 1.0% (105°C, 3 hours)               |
| Acidity or alkalinity         | ≤ 1.0% (As Sorbic Acid or $K_2CO_3$ ) |
| Aldehydes                     | ≤ 1.0% (Calculated as formaldehydes)  |
| Arsenic                       | ≤ 3mg/kg                              |
| Lead                          | ≤ 2mg/kg                              |
| Mercury                       | ≤ 1mg/kg                              |

### Ingredients:

Potassium Sorbate (E202)

### Dietary Information:

Suitable for Vegans & Vegetarians, Non-GMO, Gluten Free.

### Storage:

Store in dry, cool conditions and not in direct sunlight.

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**Packaging:**

| Size | EAN           |
|------|---------------|
| 100g | 5056191001758 |
| 250g | 5056191001765 |
| 500g | 5056191001772 |
| 5kg  | 5056191005145 |
| 10kg | 5056191005152 |

**Shelf Life:**

36 months from production date.

**Allergen Declaration**

| Allergen                                                                                                    | Contains (Y/N) |
|-------------------------------------------------------------------------------------------------------------|----------------|
| Cereals containing Gluten                                                                                   | N              |
| Crustaceans                                                                                                 | N              |
| Eggs                                                                                                        | N              |
| Fish                                                                                                        | N              |
| Peanuts                                                                                                     | N              |
| Soybeans                                                                                                    | N              |
| Milk                                                                                                        | N              |
| Nuts                                                                                                        | N              |
| Celery                                                                                                      | N              |
| Mustard                                                                                                     | N              |
| Sesame Seeds                                                                                                | N              |
| Sulphur Dioxide and Sulphites (at concentration of more than 10mg/kg or 10mg/L in terms of Sulphur Dioxide) | N              |
| Lupin                                                                                                       | N              |
| Molluscs                                                                                                    | N              |

**Material Safety Data Sheet****1: Substance/Preparation and Company Identification:****1.1 – Product Identifier****1.1.1 - Substances**

Substance Name: Potassium Sorbate

CAS No: 24634-61-5

EC No: 246-376-1

REACH Registration No: A registration number is not available for this substance as the substance or its use are exempted from registration according to REACH Regulation (EC) No 1907/2006, Annex IV and V.

**1.1.2 – Other means of identification**

Synonyms Potassium (2E,4E)-hexa-2,4-dienoate

Molecular Weight: 15.22

Chemical formula: C<sub>6</sub>H<sub>7</sub>O<sub>2</sub>K

E-Number: E-202

**1.2 – Relevant identified uses of the substance or mixture and uses advised against:**[www.specialingredients.co.uk](http://www.specialingredients.co.uk)

**1.2.1 – Relevant identified uses:**

Preserving / antioxidants used in food processing industry.

**1.2.2 – Uses advised against**

No uses advised against

**1.3 – Details of the supplier of the Material Safety Data Sheet**

Supplier Name: Special Ingredients Ltd  
 Address: 4 Foxwood View, Chesterfield, S41 9RN.  
 Tel: 0044 (0)1246 906247.  
 E-mail address: <https://specialingredients.co.uk/pages/contact>,

**1.4 – Emergency Telephone Number**

07701 095864.

**2: Hazard Identification:****2.1 – Classification of the substance or mixture**

| Classification in accordance to Regulation (EC) No. 1272/2008 (CLP/GHS)               | SCL and/or M-factor | Classification procedure |
|---------------------------------------------------------------------------------------|---------------------|--------------------------|
| Eye Irrit. 2: Causes serious eye irritation.<br>Skin Irrit 2: Causes skin irritation. | -                   | -                        |

| Classification in accordance to Directive 67/548/EEC (DSD) or 1999/45/EC | SCL and/or M-factor | Classification procedure |
|--------------------------------------------------------------------------|---------------------|--------------------------|
| Irritating to eyes and skin.                                             | -                   | -                        |

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

**Hazard pictograms****GHS07****Signal Word:**

Warning

**Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements:**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

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Remove contact lenses, if present and easy to do.  
Continue rinsing.

### 2.3 Other hazard

The product may have the following additional risks:  
Dustiness.

## 3: Composition/information on ingredients

### 3.1 – Substances

Substance name:

Substance Name: Potassium Sorbate

EC No: 246-376-1

REACH Registration No: A registration number is not available for this substance as the substance or its use are exempted from registration according to REACH Regulation (EC) No 1907/2006, Annex IV and V.

CAS No: 24634-61-5

Purity: 100%

Synonyms: Potassium (2E,4E)-hexa-2,4-dienoate

Stabilizers: N/A

Hazard impurities: N/A

## 4: First Aid Measures:

### 4.1 – Description of first aid measures

Inhalation: Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Ingestion: If accidentally ingested, seek immediate medical attention. Keep calm. Never induce vomiting.

Skin contact: Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. Never use solvents or thinners.

Eye Contact: If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

## 5: Firefighting Measures:

The product does not present any particular risk in case of fire.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

### 5.1 – Extinguishing media

Extinguisher powder or CO<sub>2</sub>. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

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

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to health.

### 5.3 – Advice for firefighters

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Remark: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

## 6: Accidental Release Measures:

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

For exposure control and individual protection measures, see section 8.

### 6.2 – Environmental precautions

Prevent the contamination of drains, surface or subterranean waters, and the ground.

### 6.3 – Methods and materials for containment and cleaning up

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

### 6.4 – Reference to other sections

For emergency contact information, see sections 1.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

## 7: Handling And Storage:

### 7.1 – Precautions for safe handling

Handling: Avoid contact with skin and eyes, inhalation of dust. Don't use empty container before they have been cleaned.

Hygiene Measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

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

Storage: Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidizing agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of nonauthorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

### 7.3 – Specific end use(s):

Antioxidant

## 8: Exposure Controls/ Personal Protection:

**8.1 – Control parameters**

Occupational exposure limit values:

N/A

Biological limit values:

N/A

Exposure limits at intended use

N/A

**8.2 – Exposure controls****Engineering Measures:**

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Person Protective measures:**

Respiratory protection: Dust respirator. Be sure to use an approved/certified or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective disposable gloves to prevent skin exposure.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

**Environmental exposure controls:** Not available

**9: Physical and Chemical Properties:****9.1 – Information on basic physical and chemical properties**

Appearance: White granular or crystalline powder.

Odour: Odourless

Solubility: 67.6g in 100ml of water at 20°C

Density (20°C): 1.36gr/cm<sup>3</sup>

pH: 8 – 11

Melting Point: 270°C

Boiling Point: N/A

Flash Point: 180°C

Explosive properties: Not explosive.

Oxidizing properties: Not Comburent.

**10: Stability and Reactivity:****10.1 – Reactivity**

The product does not present hazards by their reactivity.

**10.2 – Chemical stability**

Stable under ordinary conditions of use and storage.

**10.3 – Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 – Conditions to avoid**

Avoid temperatures near or above the flash point. Keep away from heat, sparks and open flame.

Protect against moisture.

**10.5 – Incompatible materials**

Keep away from oxidizing agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

**10.6 – Hazardous Decomposition products**

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

**11: Toxicological Information:****11.1 – Information on toxicological effects**

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin. Splatters in the eyes can cause irritation and reversible change.

**Toxicological information**

| Name                                                                     | Acute toxicity |      |      |           |
|--------------------------------------------------------------------------|----------------|------|------|-----------|
|                                                                          | Type           | Test | Kind | Value     |
| Potassium (E,E)-hexa-2,4-dienoate<br>CAS NO: 24634-61-5 EC NO: 246-376-1 | Oral           | LD50 | Rat  | 4340mg/kg |
|                                                                          | Dermal         |      |      |           |
|                                                                          | Inhalation     | LD50 | Rat  | 7940mg/kg |

**12: Ecological Considerations:****2.1 - Toxicity**

N/A

**12.2 – Persistence and degradability**

No information is available about persistence and degradability of the product.

**12.3 Bio-accumulative potential**

N/A

**12.4 – Mobility in soil**

N/A

**12.5 – Results of PBT and vPvB assessment**

Not available

**12.6 – Other adverse effects**

None

**13: Disposal Considerations:**

Method of disposal: Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation. Follow the provisions of Directive 200/98/EC regarding waste management.

**14: Transport Information:****International transport Regulations****14.1 – Un number**

ADR/RID: - IMDG: - IATA: -

**14.2 – Proper shipping name:**

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

**14.3 – Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4 – Packing group**

ADR/RID: - IMDG: - IATA: -

**14.5 – Environmental hazard**

Marine Pollutant: No

**14.6 Special precautions for user**

Not available

**14.7 – Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code**

Not available

Further information: This product is not classified as dangerous for carriage.

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

EU Directives 67/548/EEC and 1999/45/EC (including amendments)

EU Regulation (EC) No. 1907/2006 (REACH), No 1272/2008 (CLP)

See annex I of the Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances and the Regulation (EC) No 689/2008 of the European parliament and of the council of 17 June 2008 concerning the export and import of dangerous chemicals and its subsequent updates.

**15.2 – Chemical safety assessment**

There has been no evaluation a chemical safety assessment of the product.

**16: Other Information:**

Training advice: Before using/handling the product one must read carefully present MSDS.

Further information: N/A

The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control. We do not accept any liability whatsoever, however arising, which

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results directly or indirectly from the use of the product.