

# SAFETY DATA SHEET

HCS-2012 APPENDIX D TO §1910.1200

Version 1  
Product Name Potassium sorbate

Issue Date 16-Jun-2015  
Revision date 05-Jan-2024

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name Potassium sorbate  
Chemical Name Potassium sorbate

### Other means of identification

CAS No 24634-61-5

### Recommended use of the chemical and restrictions on use

Recommended Use Potassium sorbate is used as a preservative in foods.  
Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier NANTONG ACETIC ACID CHEMICAL CO.,LTD.  
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## 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2

### Label elements

Symbols/Pictograms



Signal word Warning  
Hazard Statements Causes skin irritation  
Causes serious eye irritation

Precautionary Statements      Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

**Hazards not otherwise classified (HNOC)**

No information available

**Unknown acute toxicity**

≤1% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical nature   |            | Substance |  |
|-------------------|------------|-----------|--|
| Chemical Name     | CAS No     | Weight-%  |  |
| Potassium sorbate | 24634-61-5 | ≥99       |  |

**4. FIRST AID MEASURES****Description of first aid measures**

General advice      Remove contaminated clothing and shoes. If symptoms persist, call a physician.  
Inhalation      IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.  
Skin Contact      Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.  
Eye contact      Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.  
Ingestion      Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

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

Causes skin irritation. Causes serious eye irritation

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Extinguishing media**

Suitable extinguishing media      Water (spray - not splash)  
Dry extinguishing powder  
Alcohol resistant foam  
Carbon dioxide  
Unsuitable extinguishing media      Do not use water jet.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors

**Protective equipment and precautions for firefighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas  
Ensure adequate ventilation, especially in confined areas  
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)  
Avoid contact with skin, eyes or clothing  
Contaminated work clothing should not be allowed out of the workplace  
Avoid generation of dust  
Do not breathe dust  
Use personal protection recommended in Section 8  
Wash thoroughly after handling

**Environmental precautions**

Avoid release to the environment

**Methods and material for containment and cleaning up**

Use protective equipment while cleaning if necessary.  
Avoid dust formation. Dust formation that cannot be avoided must be collected regularly.  
Use a tested industrial vacuum cleaner or suction device.  
Do not raise dust while cleaning.  
Use of a blower for cleaning is not permitted. Use protective equipment while cleaning if necessary.  
Avoid dust formation. Dust formation that cannot be avoided must be collected regularly.  
Use a tested industrial vacuum cleaner or suction device.  
Do not raise dust while cleaning.  
Use of a blower for cleaning is not permitted.

**7. HANDLING AND STORAGE****Precautions for safe handling**

Take care to maintain clean working place.  
Do not leave container open.  
Sufficient ventilation must be guaranteed for refilling, transfer, or open use.  
Avoid spillage.  
Fill only into labelled container.  
Avoid rising dust.

**Conditions for safe storage, including any incompatibilities**

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.  
Recommended storage at room temperature.  
Store in a dry place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

No data available.

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition.

**Individual protection measures, such as personal protective equipment**

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection   | In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn. Consider the maximum period for wear.<br>Respiratory protection: Particle filter P2 or P3, colour code white.<br>Use insulating device for concentrations above the usage limits for filter devices, for oxygen concentrations below 17% volume, or in circumstances which are unclear.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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.<br>Skin protection cremes do not protect sufficiently against the substance.<br>Textile or leather gloves are completely unsuitable.<br>The following information is valid for aqueous, saturated solutions of the salt.<br>The following materials are suitable for protective gloves (Permeation time $\geq$ 8 hours):<br>Natural rubber/Natural latex - NR (0.5 mm) (use non-powdered and allergen free products)<br>Polychloroprene - CR (0.5 mm)<br>Nitrile rubber/Nitrile latex - NBR (0.35 mm)<br>Butyl rubber - Butyl (0.5 mm)<br>Fluoro carbon rubber - FKM (0.4 mm)<br>Polyvinyl chloride - PVC (0.5 mm) |
| Eye/face protection      | Sufficient eye protection must be worn.<br>Wear glasses with side protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Skin and body protection | Depending on the risk, wear a tight protective clothing or a suitable chemical protection suit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                |                                |
|--------------------------------|--------------------------------|
| Appearance                     | Solid                          |
| Color                          | White                          |
| Odor                           | Odourless                      |
| Odor Threshold                 | Not determined                 |
| pH                             | 8 - 11(20 °C, 1400 g/L)        |
| Melting point/freezing point   | $\geq$ 205 °C                  |
| Boiling point / boiling range  | $\geq$ 205 °C(1013.3 hPa)      |
| Flash point                    | Not determined                 |
| Evaporation rate               | Not determined                 |
| Flammability (solid, gas)      | Combustible solid              |
| Flammability Limit in Air      | Not determined                 |
| Vapor Pressure                 | Not determined                 |
| Vapor density                  | Not determined                 |
| Density                        | 1.36 g/cm <sup>3</sup> (20 °C) |
| Relative density               | 1.36 (20 °C)                   |
| Bulk density                   | Not determined                 |
| Specific gravity               | 1400 g/L(20 °C)                |
| Water solubility               | Not determined                 |
| Partition coefficient (LogPow) | Not determined                 |
| Autoignition temperature       | > 150 °C                       |
| Decomposition temperature      | > 270 °C                       |
| Kinematic viscosity            | Not determined                 |
| Dynamic viscosity              | Not determined                 |
| Explosive properties           | Not an explosive               |
| Oxidizing properties           | Not determined                 |

### Other information

No information available

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

### Chemical stability

Stable under normal conditions

### Possibility of Hazardous Reactions

None under normal processing

### Conditions to avoid

Heat, flames and sparks. Incompatible materials.

### Incompatible materials

Aluminium, Zinc, Tin

### Hazardous Decomposition Products

Carbon monoxide and carbon dioxide  
Metal oxide fume

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|              |                                                                                        |
|--------------|----------------------------------------------------------------------------------------|
| Inhalation   | Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Eye contact  | Contact with eyes may cause irritation.                                                |
| Skin Contact | Substance cause slight skin irritation.                                                |
| Ingestion    | Ingestion may cause irritation to mucous membranes                                     |

### Information on toxicological effects

#### **Acute toxicity**

| Chemical Name                         | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|---------------------------------------|----------------------|-------------|-----------------|
| Potassium sorbate (CAS #: 24634-61-5) | = 3200 mg/kg ( Rat ) | -           | -               |

#### **Skin corrosion/irritation**

Causes skin irritation.

#### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Sensitization**

No sensitization responses were observed.

#### **Germ cell mutagenicity**

No information available

#### **Carcinogenicity**

No information available

#### **Reproductive toxicity**

No information available

#### **STOT - single exposure**

No information available

**STOT - repeated exposure**

No information available

**Aspiration hazard**

No information available

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

| Chemical Name                         | Algae/aquatic plants EC50 | Fish LC50                                     | Crustacea EC50 |
|---------------------------------------|---------------------------|-----------------------------------------------|----------------|
| Potassium sorbate (CAS #: 24634-61-5) | -                         | 1250: 96 h Brachydanio rerio mg/L LC50 static | -              |

**Persistence and degradability**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Bioaccumulative potential**

No information available

**Mobility in soil**

No information available

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

|                        |                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------|
| Disposal of wastes     | Disposal should be in accordance with applicable regional, national and local laws and regulations |
| Contaminated packaging | Dispose of in accordance with federal, state and local regulations                                 |

**14. TRANSPORT INFORMATION****DOT**

|                      |                          |
|----------------------|--------------------------|
| UN/ID No.            | Not regulated            |
| Proper shipping name | Not regulated            |
| Hazard Class         | Not regulated            |
| Packing Group        | Not regulated            |
| Special precautions  | No information available |
| Marine pollutant     | Non-marine pollutant     |

**15. REGULATORY INFORMATION****International Inventories**

| Component                    | AICS | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | TSCA |
|------------------------------|------|----------|----------------|------|-------|------|-------|------|
| Potassium sorbate 24634-61-5 | X    | X        | X              | X    | X     | X    | X     | X    |

"- " Not Listed

"X" Listed

**US Federal Regulations****SARA 313**

No information available

**SARA 311/312 Hazard Categories**

No information available

**CWA (Clean Water Act)**

No information available

**CERCLA**

No information available

**US State Regulations****California Proposition 65**

No information available

**U.S. State Right-to-Know Regulations**

No information available

**16. OTHER INFORMATION****Revision Note**

|               |                |
|---------------|----------------|
| Issue Date    | 16-Jun-2015    |
| Revision date | 05-Jan-2024    |
| Revision Note | Not applicable |

**Key or legend to abbreviations and acronyms used in the safety data sheet****TWA** - TWA (time-weighted average)**STEL** - STEL (Short Term Exposure Limit)**Ceiling** - Maximum limit value**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**Disclaimer**

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----- End of Safety Data Sheet -----