

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. 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.
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 salt. 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)
Eye/face protection	Sufficient eye protection must be worn. 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 ³ (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
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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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