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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Potassium Sorbate	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	Potassium Sorbate
Synonyms	Sorbic acid potassium salt; 2,4-Hexadienoic acid potassium salt; E202
CAS No.	24634-61-5
EC No.	246-376-1
Molecular formula	C6H7KO2
Molecular weight	150.22 g/mol
Relevant identified uses	Food preservative, laboratory chemicals, manufacture of substances
Uses advised against	None
Company	Richest Group Ltd.
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SECTION 2: Hazards identification

GHS Classification	Skin irritation Category 2; Eye irritation Category 2A; Specific target organ toxicity - single exposure Category 3 (Respiratory system)
Pictogram(s)	GHS07 (Exclamation mark)
Signal word	Warning
Hazard statement(s)	H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation
Precautionary statement(s)	P261 Avoid breathing dust/fume/gas/mist/vapours/spray

	P264 Wash skin thoroughly after handling P271 Use only outdoors or in a well-ventilated area P280 Wear protective gloves/eye protection/face protection P302+P352 IF ON SKIN: Wash with plenty of soap and water P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing 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+P313 If skin irritation occurs: Get medical advice/attention P337+P313 If eye irritation persists: Get medical advice/attention P501 Dispose of contents/container to an approved waste disposal plant
Other hazards	Fine dust may form explosive mixtures with air.

SECTION 3: Composition/information on ingredients

Component	Potassium (E,E)-hexa-2,4-dienoate
CAS No.	24634-61-5
EC No.	246-376-1
Classification	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335
Concentration (%)	≤100 %

SECTION 4: First aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects	Causes skin irritation and serious eye irritation. May cause respiratory irritation.
Indication of any immediate medical attention	Treat symptomatically. Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Unsuitable extinguishing media	None known

Special hazards arising from the chemical	Carbon oxides, potassium oxides
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	Contains no substances with occupational exposure limit values
Biological limit values	No biological exposure index (BEI) established.
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Eye/face protection	Safety glasses with side-shields conforming to EN 166.
Skin protection	Handle with gloves (nitrile rubber, thickness 0.11 mm, breakthrough time 480 min).
Body protection	Impervious clothing.
Respiratory protection	For nuisance exposures use type P95 (US) or P1 (EU EN 143) particle respirator.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Solid (granular or powder)

Colour	White to light yellow
Odour	Slight, characteristic odour
Melting point / freezing point	210 °C (decomposes on heating)
Boiling point or initial boiling point and boiling range	Not applicable (decomposes)
Flammability	Not classified as flammable
Lower and upper explosion limit / flammability limit	Not determined; dust may form explosive mixtures with air
Flash point	Not applicable (solid)
Auto-ignition temperature	178 °C
Decomposition temperature	210 °C
pH	8.0 - 11.0 (580 g/L, 20 °C)
Kinematic viscosity	Not applicable (solid)
Solubility	Water: ca. 1,400 g/L (20 °C); ethanol: ca. 1 g/L (20 °C)
Partition coefficient n-octanol/water	log Pow: 1.33 (as sorbic acid); bioaccumulation is not expected
Vapour pressure	Negligible at 20 °C (ionic solid)
Density and/or relative density	1.360 g/cm3 (20 °C)
Relative vapour density	Not applicable (solid)
Particle characteristics	No data available

SECTION 10: Stability and reactivity

Reactivity	Stable under normal conditions
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions known under normal use
Conditions to avoid	Heat, moisture and direct sunlight.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	In the event of fire: carbon oxides, potassium oxides

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - 4,920 mg/kg

Skin corrosion/irritation	Causes skin irritation
Serious eye damage/irritation	Causes serious eye irritation
Respiratory or skin sensitization	No sensitizing effects known
Germ cell mutagenicity	No mutagenic effects known (Ames test: negative)
Carcinogenicity	No component of this product present at levels ≥0.1% is identified as a carcinogen by IARC, ACGIH, NTP or OSHA
Reproductive toxicity	Not classified
STOT - single exposure	Inhalation - May cause respiratory irritation
STOT - repeated exposure	Not classified
Aspiration hazard	Not applicable (solid)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	LC50 - Fish - 1,250 mg/l - 96 h; EC50 - Daphnia magna (water flea) - 982 mg/l - 48 h
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	log Pow: 1.33 - bioaccumulation is not expected
Mobility in soil	Expected to be mobile (high water solubility)
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Offer surplus and non-recyclable product to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	Not regulated as dangerous goods
UN Proper Shipping Name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards (Marine	No

pollutant)	
Special precautions for user	No special precautions required during transport.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	EINECS: Listed (246-376-1) / TSCA: Listed / IECSC: Listed / China Catalog of Hazardous Chemicals 2015: Not listed

SECTION 16: Other information

Full text of H-Statements	H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation
Revision date	2026-10-29
Version	1.0

Abbreviations and acronyms: CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

References: ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

Disclaimer: The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute any guarantee of the properties of the product. Richest Group Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.