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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Sorbic Acid	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

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

Product name	Sorbic Acid
Synonyms	2,4-Hexadienoic acid; E200
CAS No.	110-44-1
EC No.	203-768-7
Molecular formula	C6H8O2
Molecular weight	112.13 g/mol
Relevant identified uses	Food preservative; antimicrobial agent for food, cosmetics and pharmaceuticals
Uses advised against	None
Company	Richest Group Ltd.
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SECTION 2: Hazards identification

GHS Classification	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3
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

Other hazards	Fine dust may form explosive mixtures with air.

SECTION 3: Composition/information on ingredients

Component	Sorbic acid
CAS No.	110-44-1
EC No.	203-768-7
Classification	Skin Irrit. 2; Eye Irrit. 2; 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 if irritation occurs.
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 if feeling unwell.
Most important symptoms and effects	Causes skin irritation. Causes 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	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None
Special hazards arising from the chemical	Hazardous decomposition products formed under fire conditions - Carbon 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	Use personal protective equipment. Avoid dust formation. Avoid breathing

procedures	vapours, mist or gas. Ensure adequate ventilation.
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, cool and well-ventilated place. Protect from light. Keep away from strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	No occupational exposure limits established
Biological limit values	No biological exposure index (BEI) established.
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wash hands before breaks and at the end of workday.
Eye/face protection	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection	Handle with gloves (nitrile rubber). Gloves must be inspected prior to use. Wash and dry hands after use.
Body protection	Complete suit protecting against chemicals, chosen according to the concentration and amount of the product at the specific workplace.
Respiratory protection	Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Crystalline powder
Colour	White
Odour	Faint characteristic odour
Melting point / freezing point	132 - 135 °C

Boiling point or initial boiling point and boiling range	228 °C (decomposes)
Flammability	Not classified as flammable
Lower and upper explosion limit / flammability limit	LEL (dust): 0.02 g/L
Flash point	126 °C
Auto-ignition temperature	> 402 °C
Decomposition temperature	ca. 228 °C (decomposes on boiling)
pH	Acidic (pKa 4.76 at 25 °C)
Kinematic viscosity	Not applicable (solid)
Solubility	Slightly soluble in water (ca. 1.6 g/L at 20 °C); soluble in ethanol
Partition coefficient n-octanol/water	log Pow: 1.33 (bioaccumulation is not expected)
Vapour pressure	ca. 0.01 hPa at 20 °C
Density and/or relative density	ca. 1.20 g/cm3
Relative vapour density	Not applicable (solid)
Particle characteristics	No data available

SECTION 10: Stability and reactivity

Reactivity	The solution in water is a weak acid; may discolor on exposure to light; sensitive to exposure to air and heat
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts with oxidizing agents; incompatible with bases and reducing agents; the dust may become explosive particularly when mixed with free-radical initiators or oxidizing agents
Conditions to avoid	Heat, light and moisture.
Incompatible materials	Strong oxidizing agents, strong bases
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions - Carbon oxides

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - 7,360 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 (based on available data)
STOT - single exposure	Inhalation - May cause respiratory irritation
STOT - repeated exposure	Not classified (based on available data)
Aspiration hazard	Not classified (based on available data)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	LC50 - Oryzias latipes (Japanese medaka) - 75 mg/l - 96 h (OECD 203) EC50 - Daphnia magna (water flea) - 70 mg/l - 48 h (OECD 202) ErC50 - Pseudokirchneriella subcapitata - 85 mg/l - 72 h (OECD 201)
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	log Pow: 1.33 - bioaccumulation is not expected
Mobility in soil	Estimated Koc 9; very high mobility in soil
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Offer surplus and non-recyclable product to a licensed disposal company. Dispose of in accordance with local regulations.
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 as dangerous goods
Transport hazard class(es)	Not regulated as dangerous goods
Packing group	Not regulated as dangerous goods
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 (203-768-7) / TSCA: Listed / IECSC: 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.