Richest Group
No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Tel: 0086 21 5017 5386
E-mail: inquiry@richest-group.com
Web: www.richest-group.com

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Sorbitol Solution 70%	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

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

Product name	Sorbitol Solution 70%
Synonyms	D-Glucitol; E420
CAS No.	50-70-4
EC No.	200-061-5
Molecular formula	C6H14O6
Molecular weight	182.17 g/mol
Relevant identified uses	Sweetener, humectant and texturizer for food; industrial raw material
Uses advised against	None
Company	Richest Group Ltd.
Address	No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Telephone	+86 21 5017 5386
WhatsApp	+86 13472638548
E-mail	inquiry@richest-group.com
Website	www.richest-group.com
Emergency telephone number	+86 13472638548

SECTION 2: Hazards identification

GHS Classification	Not classified as hazardous
Pictogram(s)	None
Signal word	None
Hazard statement(s)	None
Precautionary statement(s)	None
Other hazards	None

SECTION 3: Composition/information on ingredients	
Component	Sorbitol
CAS No.	50-70-4
EC No.	200-061-5
Classification	Not classified
Concentration (%)	ca. 70% (aqueous solution)

SECTION 4: First aid measures	
If inhaled	After inhalation: fresh air.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of eye contact	Rinse out with plenty of water. Remove contact lenses.
If swallowed	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Most important symptoms and effects	After uptake of large quantities: diarrhea, gastric pain. When the product is handled appropriately, hazardous effects are unlikely to occur.
Indication of any immediate medical attention	Treat symptomatically.

SECTION 5: Firefighting measures	
Suitable extinguishing media	Water, foam, carbon dioxide (CO2), dry powder.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the chemical	Carbon oxides. Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
Environmental precautions	Do not let product enter drains.
Methods and materials for	Cover drains. Collect, bind, and pump off spills. Take up dry. Dispose of

containment and cleaning up	properly. Clean up affected area.

SECTION 7: Handling and storage

Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities	Tightly closed. Dry. Storage class (TRGS 510): 11: Combustible Solids.

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	Change contaminated clothing. Wash hands after working with substance.
Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses.
Skin protection	Handle with gloves (nitrile rubber, minimum layer thickness 0.11 mm, breakthrough time 480 min).
Body protection	Choose body protection in relation to its type, to the concentration and amount of the product at the specific workplace.
Respiratory protection	Required when dusts are generated. Recommended filter type: P1 (DIN EN 143).
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Viscous liquid (70% aqueous solution)
Colour	Colorless
Odour	Odourless
Melting point / freezing point	98 - 100 °C (sorbitol)
Boiling point or initial boiling point and boiling range	105 °C at 1,013 hPa
Flammability	Not classified as flammable
Lower and upper explosion limit / flammability limit	Not applicable (aqueous solution)
Flash point	Not applicable

Auto-ignition temperature	Not applicable (aqueous solution)
Decomposition temperature	No data available
pH	5.0 - 7.5
Kinematic viscosity	ca. 110 mPa·s (dynamic) at 25 °C
Solubility	Miscible with water
Partition coefficient n-octanol/water	log Pow: -2.2 (bioaccumulation is not expected)
Vapour pressure	< 0.1 hPa at 25 °C
Density and/or relative density	1.285 - 1.315 g/cm3 at 20 °C
Relative vapour density	Not applicable
Particle characteristics	Not applicable (liquid)

SECTION 10: Stability and reactivity

Reactivity	Stable under normal conditions
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions	Violent reactions possible with: strong oxidizing agents
Conditions to avoid	Heat and sources of ignition.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	In the event of fire: carbon oxides

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - 15,900 mg/kg (RTECS)
Skin corrosion/irritation	Not irritating to skin (not classified)
Serious eye damage/irritation	Not irritating to eyes (not classified)
Respiratory or skin sensitization	No sensitizing effects known
Germ cell mutagenicity	No mutagenic effects known
Carcinogenicity	Not identified as a carcinogen by IARC, NTP, ACGIH or OSHA
Reproductive toxicity	Not classified
STOT - single exposure	Not classified

STOT - repeated exposure	Not classified
Aspiration hazard	Not classified (viscosity > 20.5 mm2/s)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	LC50 - Leuciscus idus (golden orfe) - > 70,000 mg/l - 48 h (DIN 38412 Part 15)
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	log Pow: -2.2 - bioaccumulation is not expected
Mobility in soil	Completely miscible with water; expected to be highly mobile
Other adverse effects	Biodegradation may cause oxygen depletion in water (high BOD).

SECTION 13: Disposal considerations

Product disposal methods	Offer surplus and non-recyclable solutions 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 pollutant)	No
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 (200-061-5) / TSCA: Listed / IECSC: Listed

SECTION 16: Other information

Full text of H-Statements	None

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.