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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Sodium Lauryl Sulfate (SLS)	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

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

Product name	Sodium Lauryl Sulfate (SLS)
Synonyms	Sodium dodecyl sulfate; SDS; K12; Dodecyl sodium sulfate
CAS No.	151-21-3
EC No.	205-788-1
Molecular formula	C12H25NaO4S
Molecular weight	288.38 g/mol
Relevant identified uses	Raw material for detergents, personal care products, toothpaste; foaming agent and emulsifier
Uses advised against	None
Company	Richest Group Ltd.
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SECTION 2: Hazards identification

GHS Classification	Acute Tox. 4 (Oral); Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 3; Aquatic Chronic 3
Pictogram(s)	GHS05 (Corrosion); GHS07 (Exclamation mark)
Signal word	Danger
Hazard statement(s)	H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage H402 Harmful to aquatic life

Precautionary statement(s)	P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/eye protection/face protection. P301+P312+P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. 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	Sodium lauryl sulfate
CAS No.	151-21-3
EC No.	205-788-1
Classification	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 3; Aquatic Chronic 3; H302, H315, H318, H402, H412
Concentration (%)	≥92%

SECTION 4: First aid measures

If inhaled	Remove person to fresh air. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs, get medical advice.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call an ophthalmologist.
If swallowed	Rinse mouth. Make victim drink water (two glasses at most). Do NOT induce vomiting. Consult a physician.
Most important symptoms and effects	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Irritation of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
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	Dry chemical, carbon dioxide, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	None known.
Special hazards arising from the chemical	Combustible. Development of hazardous combustion gases or vapours (carbon oxides, sulfur oxides) possible in the event of fire.
Advice for firefighters	Wear self-contained breathing apparatus and full protective gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid dust formation and breathing dust. Ensure adequate ventilation.
Environmental precautions	Do not let product enter drains. Avoid release to the environment.
Methods and materials for containment and cleaning up	Sweep up and shovel into suitable closed containers for disposal. Avoid generating dust.

SECTION 7: Handling and storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid formation of dust. Provide appropriate exhaust ventilation. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry and well-ventilated place. Keep container tightly closed. 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	Ensure adequate ventilation. Provide safety shower and eye wash station.
Eye/face protection	Tightly fitting safety goggles (EN 166).
Skin protection	Handle with chemical-resistant gloves.
Body protection	Wear protective work clothing.
Respiratory protection	Use suitable respirator when dusts or mists are generated.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Solid (powder or needles)
Colour	White to light yellow
Odour	Odourless
Melting point / freezing point	204 - 207 °C
Boiling point or initial boiling point and boiling range	Not applicable (decomposes)
Flammability	Combustible
Lower and upper explosion limit / flammability limit	Not determined; dust may form explosive mixtures with air
Flash point	170 °C
Auto-ignition temperature	310.5 °C
Decomposition temperature	No data available
pH	9.1 (10 g/L)
Kinematic viscosity	Not applicable (solid)
Solubility	Water: 130 g/L at 20 °C (soluble); partly soluble in ethanol
Partition coefficient n-octanol/water	log Pow: 1.6 (bioaccumulation is not expected)
Vapour pressure	< 0.01 hPa at 20 °C
Density and/or relative density	1 g/cm3
Relative vapour density	Not applicable (solid)
Particle characteristics	No data available

SECTION 10: Stability and reactivity

Reactivity	Reacts with strong oxidants and strong acids (ICSC 0502)
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Decomposes on burning, producing toxic and corrosive gases including sulfur oxides; reacts with strong oxidants and strong acids (ICSC 0502); on decomposition emits toxic fumes of sulfur oxides and sodium oxides
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides, sulfur oxides.

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - 977 mg/kg LD50 Dermal - Rat - > 2,000 mg/kg
Skin corrosion/irritation	Skin - Rabbit: irritations - 24 h (OECD 404)
Serious eye damage/irritation	Eyes - Rabbit: irreversible effects on the eye (OECD 405)
Respiratory or skin sensitization	Maximization Test - Guinea pig: negative
Germ cell mutagenicity	Ames test: negative; in vitro mammalian cell gene mutation test: negative; dominant lethal test (mouse): 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 - Pimephales promelas (fathead minnow) - 29 mg/l - 96 h EC50 - Ceriodaphnia dubia (water flea) - 5.55 mg/l - 48 h ErC50 - Desmodesmus subspicatus (green algae) - > 120 mg/l - 72 h
Persistence and degradability	Readily biodegradable (95% after 28 d, OECD 301B)
Bioaccumulative potential	BCF: 3.9 - 5.3 (Cyprinus carpio); bioaccumulation is not expected
Mobility in soil	Estimated Koc 3,200; expected slight 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 applicable
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; TSCA: Listed; IECSC: Listed; DSL: Listed.

SECTION 16: Other information

Full text of H-Statements	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects.
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.