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	Sodium Lauroyl Sarcosinate 30% Solution	**Revision date**	2026-11-16
Version	1.0	**Brand**	Richest

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

Product name	Sodium Lauroyl Sarcosinate 30% Solution
Synonyms	137-16-6; N-Lauroylsarcosine sodium salt; Sodium lauroylsarcosinate; Sodium N-lauroylsarcosinate; Sarkosyl NL; Gardol
CAS No.	137-16-6
EC No.	205-281-5
Molecular formula	C15H28NNaO3 (active ingredient)
Molecular weight	293.38 g/mol (active ingredient)
Relevant identified uses	Surfactant, detergent and foaming agent; dentifrice antienzyme use is reported for the active ingredient.; Cosmetic cleansing, emulsifying, foaming, skin/hair conditioning and viscosity-controlling functions; metal-processing corrosion-inhibition uses are also reported for acyl sarcosines/salts.
Uses advised against	No specific uses advised against were identified in the reviewed sources.
Company	Richest Group
Address	No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Telephone	0086 21 5017 5386
E-mail	inquiry@richest-group.com
Website	www.richest-group.com
Emergency telephone number	0086 21 5017 5386

SECTION 2: Hazards identification

GHS Classification	Not hazardous (supplier SDS wording for the 29–31% solution; not a complete CLP assessment)
Pictogram(s)	GHS05, GHS07
Signal word	None assigned in supplier SDS
Hazard statement(s)	H318 Causes serious eye damage; H332 Harmful if inhaled
Precautionary statement(s)	None
Other hazards	An irritant that may cause serious eye injury; Highly toxic by inhalation; Not a skin sensitizer in guinea pig maximization test; [Sigma-Aldrich MSDS]

SECTION 3: Composition/information on ingredients

Component	Sodium Lauroyl Sarcosinate 30% Solution
CAS No.	137-16-6
EC No.	205-281-5

SECTION 3: Composition/information on ingredients	
Classification	Not hazardous (supplier SDS wording for the 29–31% solution; not a complete CLP assessment)
Concentration	Active substance 29.0–31.0% (nominal 30% solution)

SECTION 4: First-aid measures	
If inhaled	Move the person to fresh air and keep comfortable for breathing. Get medical advice if symptoms occur.
In case of skin contact	Wash with plenty of water. Remove contaminated clothing. Get medical advice if irritation occurs.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical advice if irritation persists.
If swallowed	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Get medical advice if symptoms occur.
Most important symptoms and effects	No data available
Indication of immediate medical attention	Treat symptomatically. Show this safety data sheet to medical personnel.

SECTION 5: Fire-fighting measures	
Suitable extinguishing media	Use extinguishing media appropriate for the surrounding fire.
Unsuitable extinguishing media	No data available
Special hazards arising from the chemical	No data available
Advice for firefighters	Wear self-contained breathing apparatus and protective clothing appropriate for the surrounding fire.

SECTION 6: Accidental release measures	
Personal precautions and emergency procedures	Avoid contact with the material. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Environmental precautions	Prevent uncontrolled release to drains, soil and watercourses.
Methods for containment and cleaning up	Collect mechanically or with a suitable absorbent and place in a suitable closed container for disposal.

SECTION 7: Handling and storage	
Precautions for safe handling	Avoid contact with skin and eyes. Avoid formation or inhalation of dust, mist or vapour as applicable. Wash thoroughly after handling.
Conditions for safe storage, including incompatibilities	12 months; ventilated, dry, protected from sunlight, at 5–35°C.

SECTION 8: Exposure controls/personal protection	
Occupational exposure limit values	No data available
Biological limit values	No biological limit values were identified in the reviewed sources.

SECTION 8: Exposure controls/personal protection	
Appropriate engineering controls	Provide adequate ventilation. Eyewash facilities should be available where contact is possible.
Eye/face protection	Use safety eyewear appropriate to the risk of exposure.
Skin and body protection	Wear suitable protective gloves and clothing appropriate to the risk of exposure.
Respiratory protection	Use suitable respiratory protection if exposure limits may be exceeded or dust, mist or vapour is generated.
Thermal hazards	No specific thermal hazards were identified in the reviewed sources; see Sections 5 and 10.

SECTION 9: Physical and chemical properties	
Physical state	Transparent to pale yellow liquid, free of foreign matter
Colour	Yellow
Odour	Characteristic
Melting point / freezing point	-6 °C.
Boiling point / boiling range	Approximately 100 °C (based on water content).
Flammability	No data available
Explosion / flammability limits	No data available
Flash point	No flash point; non-combustible (supplier SDS for 29–31% solution)
Auto-ignition temperature	No data available
Decomposition temperature	>260 °C.
pH	7–9 (SDS); selected COA SPEC separately controls pH 7.5–8.5 for 10% solution at 25°C
Viscosity	Dynamic viscosity <100 mPa·s (20 °C).
Solubility	Readily soluble in water
Partition coefficient n-octanol/water	LogPow 0.37 for the neat active substance, estimated using KOWWIN v1.67; not a measured value for the 30% formulation.
Vapour pressure	0.02 [mmHg]
Density and/or relative density	Approximately 1.07 g/cm³ (20 °C).
Relative vapour density	No data available
Particle characteristics	Not applicable (liquid).
Active ingredient molecular formula	C15H28NNaO3
Active ingredient molecular weight	293.38 g/mol
Active concentration	Sodium N-Lauroylsarcosinate ≥30% and <34.5%.
Pour point	-6 °C.

SECTION 10: Stability and reactivity	
Reactivity	No data available

SECTION 10: Stability and reactivity

Chemical stability	Clariant states that the 30% product is stable under normal conditions, with a decomposition temperature >260 °C; the SDS for the neat substance requires avoidance of strong oxidants and reports that carbon oxides, nitrogen oxides, and sodium oxides may form in a fire.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	No data available

SECTION 11: Toxicological information

Toxicological summary	Safe for use in cosmetics, with qualifications
Health effects	An irritant that may cause serious eye injury; Highly toxic by inhalation; Not a skin sensitizer in guinea pig maximization test; [Sigma-Aldrich MSDS]
Acute toxicity	The oral LD50 of the neat active substance in male and female rats is >5,000 mg/kg (OECD 401). Clariant assigns H332 (harmful if inhaled) to the 30% aqueous solution Medialan™ LD; the product page does not provide an inhalation LC50 for the formulation, and data for the neat dust cannot be used as a substitute.
Skin corrosion irritation	The public SDS for the neat substance classifies it as Skin Irritation Category 2 (H315). Clariant's 30% product page does not separately provide a skin irritation classification; the neat-substance classification is provided only as a reference for the active substance and is not directly equivalent to test results for the liquid formulation.
Serious eye damage irritation	Clariant explicitly states that the 30% aqueous solution causes serious eye damage (H318); the SDS for the neat substance also includes Serious Eye Damage Category 1 information.
Sensitization	The guinea pig maximisation test for the neat active substance was negative (OECD 406).
Carcinogenicity	The public SDS states that no components present at ≥0.1% are identified by IARC as confirmed, probable, or possible human carcinogens; this statement is not equivalent to completion of long-term carcinogenicity testing.

SECTION 12: Ecological information

Ecotoxicity	For the 30% aqueous solution: Danio rerio 96 h LC50 107 mg/L (semi-static, OECD 203); Daphnia magna 48 h EC50 29.7 mg/L (static, OECD 202); and activated sludge predominantly from domestic sewage, 3 h EC50 >1,000 mg/L (OECD 209). Desmodesmus subspicatus 72 h EC50 79 mg/L; another public SDS reports a 72 h NOEC of 9.2 mg/L for the same species (static, OECD 201).
Persistence degradability	The neat active substance achieved 82% aerobic biodegradation in 28 d under OECD 301E and was determined to be readily biodegradable; Clariant also lists Medialan™ LD as readily biodegradable.
Bioaccumulative potential	The LogPow of 0.37 for the neat substance is a KOWWIN v1.67 estimate and indicates relatively low bioaccumulation potential; no substance-specific BCF was identified, so no numerical BCF is stated.
Mobility in soil	The 30% product is itself an aqueous solution and is water-soluble; combined with the low estimated LogPow, relatively high mobility in the aqueous phase is expected. This is a qualitative judgement based on solubility and the partition coefficient; no measured Koc was identified.

SECTION 12: Ecological information

Other adverse effects	The acute effect concentration for daphnids is lower than those for fish and algae, and direct discharge without treatment should be avoided. The public SDS states that the PBT/vPvB assessment was not completed because a chemical safety assessment was not required/conducted; this cannot be presented as a concluded non-PBT determination.

SECTION 13: Disposal considerations

Product disposal methods	Dispose of contents in accordance with applicable local, regional and national regulations. Do not discharge untreated product to the environment.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal in accordance with local regulations.

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	Not regulated as dangerous goods; supplier SDS states no IATA DGR/IMDG DGR restriction.
Special precautions for user	Keep containers closed and secured during transport. Follow local transport requirements.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	No data available

SECTION 16: Other information

Full text of H-Statements	H318 Causes serious eye damage; H332 Harmful if inhaled
Revision date	2026-11-16
Version	1.0
References	Supplier technical documents, public SDS/COA/TDS and regulatory sources reviewed. Public data citations are listed below. Public data sources: PubChem Sodium Lauroyl Sarcosinate (CID 23668817): https://pubchem.ncbi.nlm.nih.gov/compound/23668817 | Medialan™ LD — 30% aqueous solution of Sodium N-Lauroylsarcosinate: https://www.clariant.com/en/Solutions/Products/2025/09/24/11/50/Medialan-LD | Sodium N-Lauroylsarcosinate — Safety Data Sheet: https://www.chemicalbook.com/msds/Sodium-N-lauroylsarcosinate.htm | Sodium Lauroyl Sarcosinate — Safety Data Sheets: https://www.echemi.com/sds/sodiumlauroylsarcosinate-pid_Seven5137.html | NIKKOL SARCOSINATE LN-30 - Product specification: https://chemi-navi.nikkolgroup.com/en/personal-care/11028
Abbreviations	CAS: Chemical Abstracts Service; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; SDS: Safety Data Sheet.

SECTION 16: Other information

Disclaimer	The information in this SDS applies to the specified product and is provided in good faith based on information available to Richest Group at the date of issue. It describes health, safety and environmental requirements and does not constitute a guarantee of product properties. Users must assess suitability and comply with applicable regulations.