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: Capric Acid (Decanoic 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	Capric Acid (Decanoic Acid)
Synonyms	n-Decanoic acid; n-Capric acid
CAS No.	334-48-5
EC No.	206-376-4
Molecular formula	C10H20O2
Molecular weight	172.26 g/mol
Relevant identified uses	Raw material for flavour and fragrance esters, food additives, plasticizers, lubricants and surfactants
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	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3 (respiratory tract irritation)
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.

Other hazards	Fine dust may form explosive mixtures with air.

SECTION 3: Composition/information on ingredients

Component	Decanoic acid
CAS No.	334-48-5
EC No.	206-376-4
Classification	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Concentration (%)	≤100 %

SECTION 4: First aid measures

If inhaled	Move to fresh air. Get medical attention if symptoms occur.
In case of skin contact	Remove contaminated clothing. Wash skin with soap and plenty of water. Get medical attention if irritation develops.
In case of eye contact	Rinse cautiously with plenty of water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
If swallowed	Rinse mouth with water. Do NOT induce vomiting. Get medical attention if feeling unwell.
Most important symptoms and effects	Causes skin irritation, serious eye irritation and may cause respiratory irritation.
Indication of any immediate medical attention	Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media	Water spray, dry chemical, carbon dioxide (CO2), alcohol-resistant foam.
Unsuitable extinguishing media	None.
Special hazards arising from the chemical	Combustion may produce carbon oxides and irritating fumes.
Advice for firefighters	Wear self-contained breathing apparatus and full protective clothing. Cool

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency	Avoid dust formation and breathing dust. Avoid contact with skin and eyes. Ensure adequate ventilation. Wear suitable personal protective equipment

procedures	(see Section 8).
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	Sweep up and shovel into suitable containers for disposal. Avoid raising dust.

SECTION 7: Handling and storage

Precautions for safe handling	Avoid contact with skin and eyes. Ensure adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a cool, dry and well-ventilated place. Keep away from heat and 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 eye wash station and safety shower.
Eye/face protection	Wear safety glasses with side shields.
Skin protection	Wear suitable protective gloves (e.g. nitrile rubber).
Body protection	Wear suitable protective clothing.
Respiratory protection	Not required under normal use; use a suitable respirator if vapours or dust are generated.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Crystalline solid (flakes)
Colour	White to pale yellow
Odour	Characteristic fatty (rancid) odour
Melting point / freezing point	31-32 °C
Boiling point or initial boiling point and boiling range	268-270 °C
Flammability	Combustible; not classified as a flammable solid
Lower and upper explosion limit /	No data available

flammability limit	
Flash point	127 °C - closed cup
Auto-ignition temperature	> 250 °C
Decomposition temperature	No data available
pH	Weakly acidic (pKa ca. 4.9); saturated aqueous solution is weakly acidic
Kinematic viscosity	Not applicable (solid at 20 °C); molten product has low viscosity
Solubility	Approx. 0.15 g/l in water (20 °C), practically insoluble; soluble in ethanol, ether and most organic solvents
Partition coefficient n-octanol/water	log Pow: 4.09
Vapour pressure	Very low (< 0.1 hPa at 20 °C)
Density and/or relative density	0.886 g/cm3 at 40 °C (molten)
Relative vapour density	ca. 5.9 (Air = 1.0)
Particle characteristics	Flakes/prills

SECTION 10: Stability and reactivity

Reactivity	Insoluble in water; reacts exothermically to neutralize bases; can react with active metals to form gaseous hydrogen
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions known under normal conditions of use.
Conditions to avoid	Heat and sources of ignition.
Incompatible materials	Strong oxidizing agents, strong bases.
Hazardous decomposition products	Carbon oxides.

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - 12,900 mg/kg
Skin corrosion/irritation	Causes skin irritation (rabbit)
Serious eye damage/irritation	Causes serious eye irritation (rabbit)
Respiratory or skin sensitization	Not expected to be a sensitizer
Germ cell mutagenicity	Not classified (based on available data)

Carcinogenicity	Not listed by IARC, NTP, ACGIH or OSHA as a carcinogen
Reproductive toxicity	Not classified (based on available data)
STOT - single exposure	May cause respiratory irritation (dust)
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	No harmonised aquatic classification; due to low water solubility and ready biodegradability, adverse effects on aquatic organisms are not expected at environmentally relevant concentrations
Persistence and degradability	Readily biodegradable (natural fatty acid, OECD 301)
Bioaccumulative potential	log Pow: 4.09; however, natural fatty acids are rapidly metabolised and bioaccumulation is not expected
Mobility in soil	Low water solubility; some adsorption to organic matter expected
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Dispose of in accordance with local, regional and national regulations. Do not discharge into drains or the environment.
Contaminated packaging	Empty containers should be disposed of in accordance with applicable regulations; offer for recycling if possible.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	Not regulated as dangerous goods
UN Proper Shipping Name	Not applicable
Transport hazard class(es)	None
Packing group	None
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 (206-376-4) / 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.