
part I: chemical name and
enterprise identification

chemical English name 1 : sodium lauryl sulfate (NEEDLE/POWDER)

English name of chemical 2 : dodecyl sulfate, sodium salt

Technical specification code: 2036

CAS No. : 151-21-3

Molecular formula: $C_n H_{2n+1} O_4 SNa$, $n = 12, 14$

Average molecular weight : 294.3

contact information:

Manufacturer name: TIANJIN CREDIT INTERNATIONAL
CO.,LIMITED

Address: ZHESHANGDASHA 1209,
XIANGLUOWAN BINHAI AREA TIANJIN CHINA

Effective date: July 1, 2028

National Emergency Number :

Office of National Surfactant Research Promotion Association:
0351-2028147

Daily Chemical Research Institute: 0351-2023734

Fire service telephone: 119

part 2 of 2:
Ingredient/composition
information

Hazardous ingredients	Content	CAS No.
Sodium dodecyl sulfate	92% or higher	151-21-3

part 3 of 3: An overview of the Hazards

category of hazard : No data available.

Route of invasion : inhalation, ingestion, skin contact.

Health hazards:

Irritating to mucous membranes and upper respiratory tract, eye and skin. May cause allergic reactions in the respiratory system.

Environmental hazards: No data available.

Ignition hazard : This product is combustible, irritating and sensitizing.

part 4: First Aid measures

skin contact: Remove contaminated clothing and rinse with plenty of running water.

Eye contact: Lift eyelid, rinse with running water or normal saline, seek medical attention.

Inhalation: Leave the site to fresh air. If breathing is difficult, give oxygen. Go to a doctor.

Ingestion: Drink plenty of warm water to induce vomiting. Go to a doctor.

part 5 of 5: Fire protection Measures

Dangerous characteristics: flammable in case of open fire and high heat. High heat decomposition emits toxic gas.

Harmful combustion products : carbon monoxide, carbon dioxide, sulfide, sodium oxide.

Firefighting methods: Firefighters should wear gas masks and full body

firefighting clothing to extinguish the fire upwind. Fire extinguishing agent: mist water, foam, carbon dioxide, sand.

part 6 of 6: Emergency Response to spill

Emergency Response :

Isolate the contaminated area and restrict access. Cut off fire sources. It is recommended that emergency responders wear a dust mask (full cover) and a hazmat suit. Avoid blowing dust, carefully sweep up, put in a bag and transfer to a safe place. If a large amount of leakage, cover with plastic cloth, canvas. Collect for recycling or transport to a waste disposal site for disposal.

part 7 of 7: operating Disposal and storage

precautions for operation:

Closed operation of the product, strengthen ventilation in the workplace. The operators must be specially trained and strictly follow the operating procedures. It is recommended that operators wear self-priming filter type dust mask, chemical safety protective glasses, anti-gas penetrant work clothes, and rubber gloves. Keep away from fire and heat sources. Smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. Avoid dust generation. Avoid contact with oxidants. Handling should be light, to prevent packaging and container damage. Equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment. Empty containers may leave harmful substances.

precautions for storage:

Store in a cool, ventilated warehouse. Keep away from fire and heat sources. Should be stored separately from the oxidant, do not mix storage. Equipped with the appropriate variety and quantity of fire equipment. The storage area should be equipped with suitable materials to hold leaks.

part 8 of 8: contact control/personal protection

Maximum allowable concentrations : No data available.

Monitoring method : No data available.

Engineering control: closed production process, strengthen ventilation.

Respiratory system protection:

When the concentration of dust in the air exceeds the standard, you must wear a self-priming filter dust mask. When emergency rescue or evacuation, you should wear air respirator.

Eye protection: Wear chemical safety glasses.

Body protection: Wear anti-toxic penetrant work clothes.

Hand protection: Wear rubber gloves.

other protection: Change your work clothes promptly and maintain good hygiene.

part 9: physical and chemical properties

Main ingredient: Sodium dodecyl sulfate.

Appearance and properties: White powder or white needle.

PH: 7.5-9.5

Melting point (°C) : 204-207

Boiling point (°C) : No data available.

Relative density (,water=1) : 0.65

Relative vapor density (air=1) : No data available.

Logarithm of octanol/water partition coefficient : no data available.

Flashpoint (°C) : No data available.

Ignition temperature (°C) : No data available.

upper explosion limit%(vv/v) : No data available.

solubility: Soluble in water, slightly soluble in alcohol, insoluble in chloroform, ether.

Main applications: Used as raw material of detergent, levelling agent in printing and dyeing industry, mineral flotation agent.

part10: stability and reactivity

stability : Stability.

Forbidden ligands: Strong oxidant, acid.

conditions to avoid contact: Heat, moisture, acid.

polymerization hazards: Do not occur.

Final breakdown product : CO CO₂ SO_x

part 11: Toxicology Data

Acute Toxicity:

LD50:2000 mg/kg(mice oral);1288 mg/kg(rat oral).

LC50: No data available.

Irritation: Moderate.

part 12: Th morphology data

Xinxiang Huimiao Technology Co., LTD

Eco to xico logical toxicity: No data available.

Biodegradability: No data available.

Non-biodegradable : No data available.

part 13: waste disposal

Nature of waste: Non-hazardous waste.

waste disposal method :

Refer to relevant national and local regulations before disposal. Incineration is recommended for disposal. The sulfur oxide discharged from the incinerator is removed through a scrubber.

waste precautions : No data available.

part 14 of 4: shipping Information

Dangerous Goods Number: No data available.

UN Number: No data available.

packing mark: No data available.

packing category : No data available.

packing method: plastic woven, kraft paper bag, lined with plastic bag. 25kg/bag.

Hazards Identification: None.

suggestion according to IMO IMDG code: The substance is not subject to IMO IMDG Code.

Transportation precautions :

When shipped, the package should be complete and the loading should be safe. During transportation, it is necessary to ensure that the containers do not leak, collapse, fall or damage. It is strictly prohibited

to mix with oxidants, edible chemicals and other mixed transport. During transportation, it should be protected from exposure to sunlight, rain and high temperature. The vehicle should be thoroughly cleaned after transportation.

part 15 of 5: Regulatory Information

Regulations on the Safety Administration of Chemical Dangerous Goods (issued by The State Council on February 17, 1987), Detailed Rules for the implementation of Regulations on the Safety Administration of Chemical Dangerous Goods (Hua Laofa [1992] No. 677), Provisions on the Safe Use of Chemicals in the Workplace ([1996] Ministry of Labor No. 423), Corresponding regulations have been made for the safe use, production, storage, transportation, loading and unloading of dangerous chemicals.

part 16: Add it ional Information

References:

《Provisions for the Preparation of Chemical Safety Technical Specifications》GB 16483-2000

《Classification and Labeling of Commonly Used Hazardous Chemicals》GB13690-92

《Classification and Label Number of Dangerous Goods》GB6944-86

《Principles for Classification of Transport Packaging Categories of Dangerous Goods》GB/T15098-94

《Packaging Marks for Dangerous Goods》GB 190-90

《Recommendation on the Transport of Dangerous Goods》

《Rules for the Management of the Transport of Dangerous Goods by Railway》

《National Hazardous Waste List》

Compiled by: Technical Department

