



USIQUÍMICA

SAFETY DATA SHEET FOR CHEMICALS
MSDS

Sodium Lauryl Ether Sulfate TB200

REVISION DATE: 6/18/2018

1. - IDENTIFICATION OF PRODUCT AND COMPANY

Product name: Sodium Lauryl Ether Sulfate TB200
Internal Code of product identification:
Company name: USIQUÍMICA DO BRASIL LTDA.
Address: Rua da Lagoa, 431 - Cumbica - Guarulhos - SP.
Company Phone: (11) 3821-7000 (PBX system) - (11) 2481-3355.
Emergency call numbers: SUATRANS - COTEC - Environmental Emergency.
DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.
193 - Firefighters.

Main recommended uses for the substance: Detergent, surfactant and degreaser.


2. - HAZARDS IDENTIFICATION

Substances classification:
Corrosive/irritation to skin- Category 2
Serious eye damage / eye irritation - Category 2A
Dangerous to the aquatic environment- toxicity Acute- Category 3

Adverse effects to the human health:

Ingestion: Harmful if swallowed.
Eye contact: It can cause irritation and serious eye damage.
Skin contact: May cause irritation.
Environmental effects: Hazardous for the aquatic environment
Specific hazards: It can cause irritation to the eyes and skin. Possible irritation of the respiratory system.

GHS labeling elements, including precautionary phrases:

LABELING ELEMENTS	DATA
Product identification and supplier emergency phone.	Commercial Name: Sodium Lauryl Ether Sulfate TB200 Synonym: LESS Emergency call number: SUATRANS - COTEC - Environmental Emergency. DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.
Hazard pictogram.	
Warning words.	ATTENTION
Hazard phrase.	H302 Harmful if swallowed. H318 Causes serious eye damage H314 Causes severe skin burn and eye damage.
Caution Phrases.	- P280 Use protective gloves/protective clothing/eye protection/face shield. - P303+P361+P353 IN CASE OF SKIN CONTACT (or with the hair): Remove immediately all contaminated clothing. Rinsing the skin with water/take a shower. - P304+P340+P310 IN CASE OF INHALATION: Remove the person to a ventilated area and keep the person in a rest position that does not make it difficult to breathe. Please Immediately contact a TOXICOLOGICAL INFORMATION CENTER/physician. - P305+P351+P338+P310 IN CASE OF EYE CONTACT: Rinse thoroughly with water for several minutes. If contact lenses are used, remove them if it is easy. Continue rinsing. Please Immediately contact a TOXICOLOGICAL INFORMATION CENTER/physician. - P308+P311 IN CASE OF exposure or suspected of exposure: Please contact a TOXICOLOGICAL INFORMATION CENTER/physician.



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Other hazards which do not result in classification: No information found.

3. - COMPOSITION AND INFORMATION ON THE INGREDIENTS:

Substance: Sodium Lauryl Ethoxy Sulfate, Sodium Alkyl Ethoxy Sulfate
Common chemical name or generic name: Sodium Lauryl Ether Sulfide
Chemical Abstract Service (CAS No.): 68585-34-2
Impurities that contribute to the hazard: Not applicable.

4. - FIRST AID MEASURES:

First aid measures:

Inhalation: Remove the victim to an uncontaminated and ventilated area. If you are breathing hard, administrating oxygen. Apply resuscitation maneuvers in case of cardiorespiratory arrest. Immediately forward to the nearest hospital.

Skin contact: Remove clothing contaminated by the product. Wash the victim's mouth with plenty of water. If irritation persists, seek to physician.

Eye contact: Wash at once the eyes under running water for 15 minutes, lifting the eyelids to allow maximum product removal. Refer to the physician.

Ingestion: If a large amount of this substance is ingested, see to physician immediately.

What actions must be avoided: Do not induce vomiting. If vomiting occurs spontaneously, the victim shall be lying on his side to prevent pulmonary aspiration. Never administer liquids to unconscious victims.

Brief description of the main symptoms and effects: It can cause irritation to the eyes and skin. Possible irritation of the respiratory system.

Notes to the physician: Avoid contact with the product to help the victim. Keep the victim on standing and heated. Do not give anything by mouth to an unconscious person. Symptomatic treatment must include, mainly, supportive measures such as correction of hydro electrolytic, metabolic disorders, as well as respiratory assistance. In case of contact with the skin and/or eyes, do not rub the affected parts.

5. - FIRE FIGHTING MEASURES

Extinguishing measures appropriate: In case of fire, use CO2 extinguisher, chemical powder, foam or water.

Extinguishing measures not appropriate: Water jets.

Other relevant information: The product is difficult to burn, but it can burn or decompose if it is surrounded by flames from other products. Proceed as indicated for the other products involved in the fire.

Specific hazards: The product decomposition can produce toxic fumes containing carbon monoxide, sodium oxide and sulfur oxides (SO2 and SO3), in addition to CO2.

Additional information: The danger depends on the burning products and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official local legislation.

fire fighter protection: Special protective equipment for personnel deployed for firefighting. Do not stay in the danger zone without self-contained breathing apparatus suitable for breathing independently of the environment. To avoid contact with the skin, keep a safe distance and wear suitable protective clothing. Refresh closed containers exposed to fire with sprayable water. Suppress (throw) with water jets (fog) the gases, vapors and mists. Avoid to contamination of surface water and groundwater with water to firefighting.

6. - MEASURES OF CONTROL FOR SPILL OR LEAK

Personal precautions, protective equipment and emergency procedures:

Staff that is not part of the emergency services: Do not breathe vapor or aerosols. Avoid to contact with the substance. Ensuring adequate ventilation. Evacuating the hazard area, observe emergency procedures. If necessary, consult a specialist.

For the staff of the emergency department: Using complete PPE, with PVC protective gloves, safety glasses with side protection and appropriate protective clothing. The material used must be waterproof. In case of large leaks, where exposure is large, it is recommended to use a protective mask with a filter against vapors or mists. Spilled product that gets wet or spills of aqueous solutions creates a hazardous condition due to



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its slippery nature. Avoid to formation of dust.

Removal ignition sources: Keeping away from sources of heat and ignition.

Prevention of inhalation and contact with skin, mucous membranes and eyes: Please see Section 8, Field: "Appropriate personal protective equipment".

Precautions to the environment: Avoid to spilled product reaching watercourses. Collect the spilled product, place the material in appropriate containers for proper final disposal.

Methods and materials for containment and cleaning: Use water fog or vapor suppressing foam to reduce dispersion of vapors. Use natural or spill containment barriers. Collect the spilled product and place in proper containers.

Disposal: The waste must be disposed in according with the current environmental legislation. Keep chemicals in their original containers. Do not mix with other wastes. The handling of dirty containers must be conducted in the same way as the product itself. An MSDS must be generated from the waste.

Differences in the measures of large and small leaks: For small quantities it can be an inert absorbent material; large quantities must be dammed with earth, sand or other inert material. The product must be collected in suitable containers, duly identified, for later disposal. Wash the area with plenty of water, which must also be collected for disposal. Collect contaminated soil.

7. - HANDLING AND STORAGE

Handling:

Technical measures: Use only in areas provided with adequate exhaust ventilation. Providing the product handling area with emergency shower set and eye wash. Handling must only be done with the indicated PPEs and under safe conditions.

Prevention of worker's exposure: Avoid a formation of vapors / aerosol. Working with exhaust / chimney. Do not inhale the substance / mixture. Wear specific PPEs - splash glasses, face shield, PVC gloves and protective clothing. To avoid inhaling vapors.

Washing after handling and decontaminate PPEs after use. The PPEs must be approved for use only with the respective CAS - Certificates of Approval.

Precautions and guidelines for safe handling: Use personal protective equipment (PPE) to avoid direct contact with the product. Handling the product in a well-ventilated place. Forms a slippery layer with water.

Storage:

Appropriate: Keep the container hermetically sealed in a dry, cool and well-ventilated area. Storing in a cool, dry place in unopened original packaging. Avoid to humid, wet and slightly wet conditions, extremes of temperature and sources of ignition.

To be avoided: Avoid extreme heat.

Hygiene measures:

Appropriate: Always sanitize the hands before handling any food, as there is a risk of contamination of the food. Contaminated clothing must be washed and sanitized before the use. Keeping gloves free from moisture and decontaminated.

Inappropriate: Direct contact with the product and / or its residues.

Technical measures:

Adequate conditions: Keeping containers closed and in a well-ventilated place. Keep containers protected from heat and direct sunlight. Avoid extreme temperatures. Avoid to moisture.

Packaging safe materials:

Recommended: Stainless steel, carbon steel coated with vinyl ester resin, glass fiber reinforced polyester resin, plastic materials (polyethylene).

Not appropriate: Aluminum and zinc and their alloys.

Other information: Protect from extreme cold, heat and sunlight.

8. - EXPOSURE CONTROLS AND INDIVIDUAL PROTECTION

Parameters of specific control:

Occupational exposure limits: Data not available.

Biological indicators: Not found.



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Other limits and values: N.A.

Measures of engineering control: Handling the product in a location with good natural or mechanical ventilation, in order to keep the concentration of vapors / dust below the tolerance limit. Promote mechanical ventilation and a direct exhaust system to the outside environment. These measures help to reduce product exposure. It is recommended to make emergency showers and eye washers available in the work area. Engineering control measures are the most effective in reducing product exposure.

Appropriate personal protective equipment:

Adequate respiratory safety equipment in case of low concentrations or short term exposure: Medium efficiency filter for solid and liquid particles.

Hand protection: Chemical resistant gloves.

Eye Protection: Safety glasses with side-shields (glasses with frames).

Protection of the skin and body: Light clothing to protect.

Hygiene measures: Hands and face must be washed before breaks and at the end of the shift. Remove immediately all contaminated clothing. Wash contaminated clothing before reuse.

9. - PHYSICAL AND CHEMICAL PROPERTIES

Physical condition: Liquid.

Color: Claro.

Odor: Characteristic.

pH to 10%: 7.0 a 8.5.

Boiling point: Not applicable.

Autoignition temperature: Not applicable.

Explosive properties: Not applicable.

Solidification point: 0° C.

Density at 20°C: Approximately 1.05 g / ml.

Evaporation rate: Not available.

Flammability (solid): Not available.

Lower/upper flammability or explosiveness limit: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Partition coefficient - n-octanol / water: Not available.

Boiling point: 100°C.

Solubility in water: Totally soluble.

Viscosity (mpa.s) at 25°C: Below 6000 mpa.s.

Decomposition temperature: Hydrolysis may form at temperatures above 50 ° C.

10. - STABILITY AND REACTIVITY

Specific conditions:

Reactivity: It can react with concentrated strong oxidizers.

Chemical stability: Stable.

Conditions to be avoided: Avoid extreme temperatures. Avoid to moisture.

Materials or incompatible substances: Strong oxidizers, strong acids and bases at high temperatures.

Hazardous decomposition products: Hydrolysis releases sulfuric acid. Combustion produces carbon monoxide, carbon dioxide, sulfur oxides (di- and tri including sulfur oxides). In reducing atmospheres, it can produce hydrogen sulfide (H₂S) which is a toxic gas.

11. - TOXICOLOGICAL INFORMATION

Information according to the different manners of exposure:

Acute Toxicity: DL50 rat (oral): > 4,000 mg/kg

Corrosion/irritation of skin: May cause irritation.

Severe ocular lesions/eye irritation: It can cause irritation and serious eye damage.

Respiratory or skin sensitization: Possible irritation of the respiratory system.

Germ cell mutagenicity: It has no mutagenic effect.

Carcinogenicity: It has no carcinogenic effect.



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Reproductive toxicity: Not classified for reproductive toxicity.
Toxicity to organs - specific targets - single exposure: Not available.
Toxicity to organs - specific targets - repetitive exposure: Not available.
Aspiration hazard: Not available.

12. - ECOLOGICAL INFORMATION

Environmental effects, behaviors and impacts of the product:

Ecotoxicity: In the environment (running water) it can degrade completely in 2 days. Therefore, there is a risk of rapid reduction of dissolved oxygen, which can make the environment toxic to fish and other aquatic organisms, even at low concentrations.

Persistence and degradability:

Disposal instructions: The product is completely biodegradable. DBO5: > 60% of the theoretical.

Mobility:

Data not available.

Evaluation of transport between environmental compartments:

Bioaccumulation Assessment of bioaccumulation potential:

It is not expected to accumulate in the environment.

Additional information

Other ecotoxicological indications: Unavailable information.

13. - CONSIDERATION ON THE FINAL DISPOSAL

Recommended methods for final destination:

The treatment and disposal of product wastes must be carried out in an appropriate environment, by people trained with the use of special equipment and the recommended PPE's to avoid contact with the product, its vapors or mists. Leaks must be contained and collected for later disposal after neutralization.

Product:

Ensure that all Federal, State and local agencies receive appropriate notices of spills and disposal methods. CONAMA Resolution 005/1993, Law No. 12,305, of August 2, 2010 (National Policy on Solid Waste).

Waste of products:

Please consult environmental regulatory agencies for counselling on the acceptable disposal practices. Please contact the relevant local authorities. It can be incinerated when in compliance with local regulations. Or dispose of at an approved chemical waste landfill.

- Used Package:

Empty packages must be drained and covered before handling and transport operations. If the packaging is not conveniently washed and decontaminated, it is considered to contain product.

14. - TRANSPORT INFORMATION

National and International Regulations

Land:

Resolution No. 5232 of Wednesday, December 14, 2016 of the National Land Transport Agency (ANTT), *Approves the Supplementary Instructions to the Regulation for the Land Transportation of Dangerous Products and their modifications.*

ONU number: Product not classified by the Legislation in force on the transport of dangerous products.

Appropriate name for shipment: -

Risk class: -

Risk subclass: -

Risk number: -

Packaging group: -

Waterway:

DPC - Directorate of Ports and Coasts (Transport in Brazilian waters) Maritime Authority Standards (NORMAM) NORMAM 01 / DPC: Vessels Employed in Open Sea Navigation

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Risk class: -

Risk subclass: -

Risk number: -

Packaging group: -

Air:

ANAC - Civil Aviation National Agency - Resolution No. 129 of as 8 January, 2009

RBAC No. 175 - (BRAZILIAN CIVIL AVIATION REGULATION) - TRANSPORT OF DANGEROUS MATERIALS IN CIVIL AIRCRAFT

IS No. 175-001 - SUPPLEMENTARY INSTRUCTION - IS

ICAO - "International Civil Aviation Organization" - Doc 9284-NA / 905 IATA - "International Air Transport Association"

Dangerous Goods Regulation (DGR)

ONU number: Product not classified by the Legislation in force on the o transport of dangerous products.

Appropriate name for shipment: -

Risk class: -

Risk subclass: -

Risk number: -

Packaging group: -

15. - INFORMATION ON THE REGULATIONS

Specific regulations for the chemicals:

Federal Decree No. 2,657 of as July 3, 1998;

Standard ABNT-NBR 14725:2014;

Ordinance No. 229, of as May 24, 2011 - Amends Regulatory Standard No. 26.

16. - OTHER INFORMATION

The information in this sheet corresponds to the current status of our knowledge and our product experience and is not exhaustive. Applies to the product under the conditions specified, unless mention otherwise. In case of combinations or mixtures, make sure that no new hazards can appear. This information does not exempt, in any case, the user of the product from respecting the all legislative, regulatory and administrative texts related to the product, safety, hygiene and protection of human and environmental health.

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BRAZIL. MINISTRY OF LABOR AND EMPLOYMENT (MTE) Regulatory Standard (NR) No. 7: Programa de controle médico de saúde ocupacional. Brasília, DF. Jun. 1978.

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< <http://www.epa.gov/oppt/exposure/pubs/episuite.htm>>. Access on: June, 2018.

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