

SAFETY DATA SHEET - SDS

Product : OXIMULSION 1370

Review : 10

April 27th, 2018

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product	OXIMULSION 1370
Internal identification code	--
Relevant recommended uses	Industrial uses.
Company	OXITENO NORDESTE SA INDUSTRIA E COMERCIO OXITENO S/A INDUSTRIA E COMERCIO
Address	Av. Brigadeiro Luiz Antonio, 1343-7º andar BELA VISTA São Paulo - SP 01317-910
Phone number	(11) 3177-6075
Emergency Phone number	Mauá - SP: (11) 4478-3212 Tremembé - SP: (12) 3672-3578 Camaçari - BA: (71) 3634-7658 Triunfo - RS: (51) 3457-5134 Suzano - SP: (11) 4745-8741

2. HAZARDS IDENTIFICATION

Classification	Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Hazardous to the aquatic environment - acute, Category 2 Hazardous to the aquatic environment - chronic, Category 3
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Label Elements**• Hazard Pictograms****• Signal Word**

DANGER

• Hazard Statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

• Precautionary Statements

P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P310 Immediately call a POISON CENTER or doctor/physician.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents / container in accordance with current legislation.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Brand or Generic Chemical Name	Sodium lauryl ether sulfate 3 EO
Product Type	Mixture.
Ingredients or impurities which contribute to the classification	Sodium lauryl ether sulfate (CAS# 68891-38-3): ca. 70%.
Composition Comments	Additional information CAS#: 68585-34-2 (Sodium lauryl ethoxysulfate); 9004-82-4 (Sodium lauryl ether sulfate).

4. FIRST-AID MEASURES**Procedure in Case of:**

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- **Ingestion** Seek prompt medical attention.
Do not induce vomiting.
Vomiting should only be induced by medical personnel.
If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs.
Never give anything by mouth to an unconscious or convulsing person.
- **Inhalation** Seek prompt medical attention.
Remove victim to fresh air.
If breathing is difficult, give oxygen.
If not breathing, give artificial respiration.
- **Skin contact** Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower.
Seek prompt medical attention.
- **Eye contact** Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open.
Remove contact lenses if easy to do.
Seek prompt medical attention.

Most important symptoms/effects, acute and delayed

Ingestion- May cause: Gastrointestinal irritation. Diarrhea. Vomiting. Abdominal discomfort. Intestinal distension.

Inhalation- Vapors from the liquid at high temperatures or mist of the product, in high concentrations, may cause irritation of the respiratory system.

Skin- May cause: Dryness. Dermatitis. Redness.

Eyes- May cause: Moderate to severe irritation. Hyperemia. Vascularization.

Information for doctor

There is not known any specific antidote.

Direct the treatment in accordance with the symptoms and clinical conditions of the patient.

5. FIRE-FIGHTING MEASURES

Extinguishing MediaIn case of fire, use:
Water spray.
Carbon dioxide (CO₂).
Alcohol resistant foam.
Dry chemical powder.**Specific Hazards**Product is not flammable.
In case of combustion may generate toxic and/or irritant fumes containing:
Oxides of sulfur.
Oxides of carbon.
In reducing atmospheres may produce:
Hydrogen sulfide (H₂S) - a toxic gas.**Protective measures for fire-fighters**Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire.
Self-contained breathing apparatus and protective clothing are required.
Cool the intact fire-exposed containers with water spray and remove them.**NFPA Rating**

- **Health** 1
- **Flammability** 1
- **Instability** 0
- **Special**

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency proceduresIsolate and signalize area.
Keep heat and/or ignition sources away.
Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.**Environmental Precautions**Prevent product from entering into soil and waterways.
Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.**Methods and materials for containment and cleaning up**Stop if possible.
Contain and dike spilled product with earth or sand.
Eliminate ignition or heat sources.
Transfer to proper container.
Collect remnants with an appropriate absorbent material.
Wash the contaminated surface with water, which should be collected for disposal.

7. HANDLING AND STORAGE

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Precautions for safe handling	Use in a well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If occurs accidental contact, exposed area should be washed immediately. Emergency eyewashes and showers shall be located in accessible locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.
Conditions for safe storage	Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use. The product can be heated between 20 and 55 °C to be transported. Storage tanks must maintain the temperature between 25 and 40 °C during storage.
Incompatibilities	Avoid contact with: Oxidizing materials.
Packaging Material	Recommended: Stainless steel. Polyethylene.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

• TLV-TWA (ACGIH)	Not established.
• PEL-TWA (OSHA)	Not established.
• TLV-STEL (ACGIH)	Not established.
• LT(NR15)	Not established.
• Odor Threshold	Not available.
• IDLH	Not available.
• Biological Exposure Indices (ACGIH)	Not established.

Engineering Control Measures In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhauster).

Individual Protection Measures

• Eye Protection	Side shields or wide vision safety goggles.
• Skin Protection	PVC apron. It is recommended to adopt safety boots/shoes.
• Hand Protection	Gloves made of: PVC (Polyvinyl chloride).
• Breathing equipment	In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus. It is recommended to wear face mask with organic vapors and SO2 cartridge in case of exposure to vapors/aerosols.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pasty. Yellowish.
Odour and Odour threshold	Not available.
pH	11.0 - 13.0 (sol. 10%, 25 °C).
Melting point/Freezing point	0 °C (beginning of turbidity).
Initial Boiling Point and Boiling Range	Not available.
Flash point	> 100 °C (open cup).
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.

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Vapour pressure	3 kPa (calculated, 25 °C).
Vapour density (air = 1)	Not available.
Relative density (water=1)	1.075 (20 °C).
Apparent density	Not available.
Solubility	Soluble in water (20 ° C for 1 hour / concentration of 0.5%).
Partition Coefficient n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	14.000 cps (máx. / 40 °C).

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of use and storage.
Reactivity	No hazardous reactivity is expected.
Possibility of Hazardous Reactions	Not polymerize.
Conditions to avoid	High temperatures, ignition sources and prolonged exposure to the air.
Incompatible materials	Avoid contact with: Oxidizing materials.
Hazardous decomposition products	In case of combustion may generate toxic and/or irritant fumes containing: Oxides of sulfur. Oxides of carbon. In reducing atmospheres may produce: Hydrogen sulfide (H ₂ S) - a toxic gas.
Considerations on the use of the product	Not applicable.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

- Oral Sodium lauryl ether sulfate - LD50, rat: 4100 mg/kg.
- Inhalation Sodium lauryl ether sulfate - Rats exposed to a concentration of 1794 mg/m³ showed a 25% reduction in respiratory rate.
- Dermal Sodium lauryl ether sulfate - LD50, rat: > 2000 mg/kg.

Skin corrosion/irritation Sodium lauryl ether sulfate - Moderate irritation: 25 mg, 24h, rabbit.**Serious eye damage/eye irritation** Sodium lauryl ether sulfate - Severe irritation: 100 µL, 24h, rabbit.**Respiratory or skin sensitization** Not a skin sensitizer in guinea-pigs.**Germ cell mutagenicity** Sodium lauryl ether sulfate - Negative for:
In vitro: Ames test, mammalian cell gene mutation assay (mouse lymphoma cells).
In vivo: Micronucleus (mouse).**Carcinogenicity** There is no known carcinogenic activity.**Reproductive toxicity** Sodium lauryl ether sulfate -
Toxicity to reproduction -NOAEL, oral, rat: > 300 mg/kg/day.
Developmental toxicity/teratogenicity - The study does not reveal any embryotoxic or teratogenic potential up to a oral dose level of 1000 mg/kg/day.**Specific target organ toxicity - Single exposure** Not available.**Specific target organ toxicity - Repeated exposure** Sodium lauryl ether sulfate - NOAEL, oral, rat: > 225 mg/kg/day (systemic toxicity).**Aspiration hazard** Not available.

12. ECOLOGICAL INFORMATION

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Ecotoxicity	Sodium lauryl ether sulfate Fish - LC50, 96 h, Oncorhynchus mykiss: 10.4 mg/L [semi-static]. LC50, 96 h, Brachydanio rerio: 7.1 mg/L [flow-through]. NOEC, 45 d, Pimephales promelas: 1 mg/L [flow-through]. Invertebrate - EC50, 48 h, Daphnia magna: 7.2 mg/L [static]. EC50, 48 h, Ceriodaphnia dubia (water flea): 2.43 - 4.01 mg/L. NOEC, 21 d, Daphnia magna: 0.72 mg/L [semi-static]. Algae - EC50, 72 h, Desmodesmus subspicatus: 27 mg/L [static]. NOEC, 72 h, Desmodesmus subspicatus: 0.93 mg/L [static].
Persistence and Degradability	Readily biodegradable. 65% after 28 days.
Bioaccumulative Potential	Not available.
Mobility in soil	Not available.
Other Adverse Effects	Water hazard class 2: Hazard to water.

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal

- **Product**

The preferred options for disposal include reuse, recycling, co-processing, finding a use for a by-product, incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies.
- **Product Remains**

Same method as indicated for product.
- **Packaging**

Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. The preferred options for disposal include reuse, recycling or reclamation at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. The disposal must comply with local legislation and in accordance with standards from local environmental agencies.

14. TRANSPORT INFORMATION

# Land Transport ANTT	Product not classified as hazardous in accordance with Resolution 5232/2016 - Transport Ministry.
# • UN number	N/A
# • Proper Shipping Name	Not classified.
# • Hazard Class	Not classified.
# • Hazard Number	Not classified.
# • Packaging Group	Not classified.
# Maritime Transport IMDG	Product not classified as hazardous in accordance with IMDG Code - 2016 Edition - IMO (International Maritime Organization).
# • UN number	N/A
# • Proper Shipping Name	Not classified.
# • IMDG Class	Not classified.
# • Packaging Group	Not classified.
# • EmS	Not classified.
# Air Transport ICAO-TI and IATA-DGR	Product not classified as hazardous in accordance with Dangerous Goods Regulations - 57th Edition - IATA (International Air Transport Association).
# • UN number	N/A
# • Proper Shipping Name	Not classified.

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# • ICAO/IATA Class	Not classified.
# • Label	Not classified.
# • Packaging Group	Not classified.

15. REGULATORY INFORMATION

# Applicable standards	IMDG Code - Edição 2016 - IMO (International Maritime Organization). Resolution 420 / 2004 – Transport Ministry. Dangerous Goods by Road (ADR) – Available from January 1st, 2011 – Unece (United Nations Economic Commission for Europe). Dangerous Goods Regulations - 56th Edition - IATA (International Air Transport Association).
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16. OTHER INFORMATION

Remarks	The ALKOPON 24 3S 70 can be produced in the following plants: Oxiteno Oxiteno Brazil and Uruguay.
# Sources	European Chemicals Agency - http://echa.europa.eu/ . 2016 TLVs and BEIs – Based on the Documentation of the Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices – ACGIH. LOLI - ChemADVISOR's Regulatory Database. eChemPortal - The Global Portal to Information on Chemical Substances. 2016 Guide to Occupational Exposure Values – ACGIH.
Abbreviations and acronyms	ACGIH: American Conference of Governmental Industrial Hygienists (USA). ADR: European agreement concerning the international carriage of dangerous goods by road. CAS: Chemical Abstracts Service (American Chemical Society - EUA). EC50: Average concentration for 50% of maximum response. LC: Lethal Concentration - substance concentration in the environment that leads to death after a certain period of exposure. LC50: Lethal concentration for 50% of the test animals. BOD: Biochemical Oxygen Demand. LD50: Lethal Dose for 50% of the test animals. LDLo: Lethal Dose Low - minimal amount of a chemical lethal to animals in testing. EINECS: European Inventory of Existing Commercial Chemical Substances. GHS: Globally Harmonized System of Classification and Labelling of Chemicals. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IATA-DGR: Dangerous Goods by Regulations by the IATA ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO. IMDG: International Maritime Code for Dangerous Goods. IDLH - Immediately Dangerous To Life or Health Concentrations. Kow: Octanol/water partition coefficient. LT (NR 15): Exposure limits of the standard number 15 - Unhealthy Operations and Activities from the Ministry of Labour and Employment of Brazil. LOAEL: Lowest Adverse Effect Level LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database NLP: No Longer Polymers. NIOSH: National Institute for Occupational Safety and Health. NOAEL: No Observed Adverse Effect Level NTP: National Toxicology Program. OSHA: Occupational Safety and Health Administration (EUA). PEL-TWA: Exposure Limit Allowed – time-weighted average. RID: Regulations concerning the international transport of dangerous goods by rail. TLV-STEL: Tolerance Limit - short period of time (15 minutes, maximum). TLV-TWA: Tolerance Limit – time weighted average. WGK: Wassergefährdungsklasse (Germany) - Water Hazard Class.

This Safety Data Sheet was authored according to our current knowledge and experience, however cannot imply guarantee of any nature. Considering the variety of factors that can affect their process or application, the information on this sheet does not exempt the processors from the responsibility of executing their own tests and experiments.

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