

SAFETY DATA SHEET - SDS

Product : ALKONAT E 200 F

Review : 04

May 29th, 2013

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

Product	ALKONAT E 200 F
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
Fax	(11) 3285-5094
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	Acute toxicity - Oral, Category 5 Skin corrosion/irritation, Category 3 Serious eye damage/eye irritation, Category 2A
-----------------------	--

Label Elements

- Hazard Pictograms



- Signal Word

WARNING

- Hazard Statements

H303 May be harmful if swallowed.
H316 Causes mild skin irritation.
H319 Causes serious eye irritation.

- Precautionary Statements

P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P337+P313 If eye irritation persists: Get medical advice/attention.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Brand or Generic Chemical Name	Stearyl Alcohol 20 EO
Product Type	Substance.
# Synonyms	Stearyl alcohol ethoxylate 20 EO, 20 EO stearyl alcohol, Steareth-20 (INCI - CTFA).
# CAS Number	9005-00-9 (generic).
# EINECS/NLP number	500-017-8 (generic).
# Impurities which contribute to the classification of the substance	There are no impurities which contribute to the classification of the substance.

4. FIRST-AID MEASURES

Procedure In Case of:

SAFETY DATA SHEET - SDS

Product : ALKONAT E 200 F

Review : 04

May 29th, 2013

- **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.

Inhalation- Due to your low vapor pressure, is unlikely to cause inhalation problems at room temperature. Vapors from the liquid at high temperatures or mist of the product, in high concentrations, may cause irritation of the respiratory system.

Skin- Causes: Mild to moderate irritation.

Eyes- Causes: Moderate to severe irritation.

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 Media

In case of fire, use:
Water spray.
Alcohol resistant foam.
Carbon dioxide (CO₂).
Dry chemical powder.

Specific Hazards

Product is not flammable.
Dust/air mixtures may ignite or explode.
In case of combustion it may generate carbon monoxide, besides CO₂.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Isolate 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

SAFETY DATA SHEET - SDS

Product : ALKONAT E 200 F

Review : 04

May 29th, 2013
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.

Incompatibilities

Avoid contact with:
 Strong oxidizing agents.
 Strong acids and bases at high temperatures.

Packaging Material

Recommended:
 Stainless steel
 Coated carbon steel with:
 Vinyl ester resin

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 available.

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:
Rubber.
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 a face mask with mechanical filter in case of exposure to the particulate material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White flakes.
Odour and Odour threshold	Not available.
pH	Not available.
Melting point/Freezing point	~ 47 °C.
Initial Boiling Point and Boiling Range	Not available.
Flash point	> 250 °C.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.

SAFETY DATA SHEET - SDS

Product : ALKONAT E 200 F**Review :** 04**May 29th, 2013**

Vapour pressure	Not available.
Vapour density (air = 1)	Not available.
Relative density (water=1)	Not available.
Apparent density	520 kg/m3.
Solubility	Soluble in water (20 °C).
Partition Coefficient n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

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: Strong oxidizing agents. Strong acids and bases at high temperatures.
Hazardous decomposition products	In case of combustion it may generate carbon monoxide, besides CO2.
Considerations on the use of the product	Not applicable.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	
• Oral	LD50, rat: 2900 mg/kg.
• Inhalation	Not available.
• Dermal	Not available.
Skin corrosion/irritation	Moderate irritant (rabbits, 24 hours).
Serious eye damage/eye irritation	Irritant (rabbits).
Respiratory or skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	There are no known references on carcinogenic, mutagenic or teratogenic activity of the product.
Reproductive toxicity	Not available.
Specific target organ toxicity - Single exposure	Not available.
Specific target organ toxicity - Repeated exposure	Not available.
Aspiration hazard	Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	There is 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	Readily biodegradable. BOD5 > 95% (estimated).
Bioaccumulative Potential	It is not expected to bioaccumulate in the environment.

SAFETY DATA SHEET - SDS

Product : ALKONAT E 200 F

Review : 04

May 29th, 2013
Mobility in soil Not available.

Other Adverse Effects Not available.

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 420/2004 - 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 - 2010 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 - 53rd Edition - IATA (International Air Transport Association).
• UN number	N/A
• Proper Shipping Name	Not classified.
• ICAO/IATA Class	Not classified.
• Label	Not classified.
• Packaging Group	Not classified.
Land Transportation ADR/RID (cross-border)	Product not classified as hazardous in accordance with Dangerous Goods by Road - Applicable from 1st January 2011 - Unece (United Nations Economic Commission for Europe).
• UN number	N/A
• Proper Shipping Name	Not classified.
• ADR/RID class	Not classified.
• Packaging Group	Not classified.

SAFETY DATA SHEET - SDS

Product : ALKONAT E 200 F

Review : 04

May 29th, 2013

- **Danger code (Kemler)** Not classified.
- **Restriction Code** Not classified.

15. REGULATORY INFORMATION

Applicable standards

Resolution 420 / 2004 – Transport Ministry.
 IMDG Code - 2010 Edition - IMO (International Maritime Organization).
 Dangerous Goods by Road (ADR) – Available from January 1st, 2011 – Unece (United Nations Economic Commission for Europe).
 Dangerous Goods Regulations - 53rd Edition - IATA (International Air Transport Association).
 Brazilian Technical Standards Association (ABNT) – NBR 14725 - Part 1 to 4.

16. OTHER INFORMATION

Remarks Not applicable.

Sources

European Chemicals Bureau - <http://ecb.jrc.it>
 LOLI - ChemADVISOR's Regulatory Database.
 2012 TLVs and BEIs – Based on the Documentation of the Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices – ACGIH.
 2012 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.

ELECTRONICALLY APPROVED