

FICHA COM DADOS DE SEGURANÇA

Nome do Produto: ALKONAT 16/98 P

Revisão: 00(English)

Data: 21/10/2021

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1 - Identificação

Nome do Produto: ALKONAT 16/98 P

Número da FDS: 4888

Comercializado por: Morais de Castro Comércio e Importação de Produtos Químicos Ltda.

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1.1-Outras maneiras de identificação:

Main recommended uses Industrial use.

1.2-Usos recomendados do produto químico e restrições de uso:

2 - Identificação de perigos

Classification:

Acute Toxicity Skin, Category 5

Acute Oral Toxicity, Category 5

Skin corrosion/irritation, Category 3

Appropriate Labeling Elements

Hazard Pictograms: Not applicable.

Warning Word: ATTENTION

Danger Phrases:

H313 May be harmful in contact with skin.

H303 May be dangerous if swallowed.

H316 Causes moderate skin irritation.

Precautionary Phrases:

P312 If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

Store in accordance with all current regulations and standards.

Dispose of in accordance with all applicable regulations

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3 - Composição e Informações sobre os ingredientes

Common or Generic Chemical Name Cetyl alcohol

Product Type Substance.

Synonyms Cetyl Alcohol, C16 Fatty Alcohol, n-Hexadecanol, Palmitic Alcohol, Hexadecyl Alcohol.

CAS No. 36653-82-4.

Impurities contributing to substance classification

There are no impurities contributing to the classification of the substance

4 - Medidas de primeiros-socorros

Procedures in Case of:

• Intake

Seek medical attention immediately.

Do not induce vomiting.

Vomiting should only be induced by a medical person.

If vomiting occurs, keep your head lower than your torso to avoid aspiration of the product into your lungs.

Never offer anything to an unconscious or convulsing person.

• Inhalation

Seek immediate medical assistance.

Remove victim to fresh air.

If breathing is difficult, provide oxygen.

In case of respiratory arrest, provide artificial respiration.

• Skin Contact

Remove contaminated clothing and shoes. Wash the affected parts with large amounts of running water, preferably under a shower.

Seek immediate medical assistance.

• Eye Contact

Rinse immediately with large amounts of running water for at least 15 minutes, keeping eyelids open.

Remove contact lenses if possible.

Seek immediate medical assistance.

Most important symptoms and effects, both acute and late

Ingestion - In large amounts, can cause liver damage.

Inhalation - May cause irritation of the nose, throat and respiratory tract with dizziness and headache.

Skin - Prolonged and/or repeated exposure can lead to the removal of fat from the skin, causing irritation and dermatitis.

Eyes - May cause mild irritation.

Notes to doctor

Ingestion can lead to changes in liver function.

No specific antidote is known.

Target treatment according to the patient's symptoms and clinical conditions.

5 - Medidas de combate a incêndio

Extinguishing Means

In case of fire, use:

Water spray.

Carbon dioxide (CO₂).

Dry chemical powder.

Alcohol resistant foam.

Specific Hazards

Non-flammable product.

In case of combustion, it can generate toxic and/or irritating fumes containing:

Oxides of carbon.

Ketones.

Aldehydes.

Fire-fighting team protection measures

No water jet should be directed directly onto the burning product, as it may spread out and increase the intensity of the fire.

Self-contained respiratory protection and protective clothing required.

Cool intact fire-exposed containers with fog water and remove.

Hommel's diamond

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- Health 2
- Flammability 1
- Instability 0
- Specials

6 - Medidas de controle para derramamento ou vazamento

Personal precautions, protective equipment and emergency procedure

Isolate and signal the area.

Keep away from sources of heat and/or ignition.

Wear personal protective equipment indicated in Section 8 to avoid contact with spilled product.

Environmental Precautions

Prevent the product from reaching the ground and waterways.

Notify the competent authorities if the product reaches drainage systems or water courses or if it contaminates the soil or vegetation.

Methods and materials for containment and cleaning

Stop if possible.

Contain spilled product with earth or sand dikes.

Eliminate sources of ignition or heat.

Transfer to suitable container.

Collect debris with suitable absorbent material.

Wash the contaminated area with water, which must be collected for disposal

7 - Manuseio e armazenamento

Precautions for safe handling

Use in a well-ventilated area.

Prevent product inhalation, contact with eyes, skin and clothing through adequate protection.

If accidental contact occurs, the site must be washed immediately.

Emergency showers and eyewash stations should be available at appropriate locations.

Wash hands and face thoroughly after handling.

Wash contaminated clothing before reuse.

Secure Storage Conditions

Store in a covered, well-ventilated place, away from sunlight and away from heat sources or open flames.

Ensure that the storage location has adequate temperature, pressure and humidity.

Keep containers tightly closed when not in use.

Pallets should not be stacked to avoid product compaction.

Incompatibilities

Avoid contact with:

Strong acids.

Strong oxidizing agents.

Combustible materials.

Metallic salts.

Halogens.

Packaging Materials

Recommended:

Stainless steel.

Low density polyethylene.

Polypropylene

8 - Controle de exposição e proteção individual

Control parameters

- TLV-TWA (ACGIH) 10 mg/m³ (Inhalable PNOS); 3 mg/m³ (Breathable PNOS).
- PEL-TWA (OSHA) 15 mg/m³ (Inhalable PNOS); 5 mg/m³ (Breathable PNOS).
- TLV-STEL (ACGIH) Not established.
- LT(NR15) Not established.
- Odor Threshold Not available.
- IPVS Not available.
- Biological Exposure Indices (ACGIH) Not established.

Engineering Control Measures

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In closed environments, this product must be handled maintaining adequate exhaustion (general diluter or local exhausting).

Personal Protection Measures

- Eye Protection - Safety glasses with side shields or wide vision.
- Skin Protection - PVC apron. We recommend the adoption of safety boots/shoes.
- Hand Protection - Gloves made of: PVC (Polyvinyl Chloride). Nitrile rubber.
- Respiratory Protection - In case of emergency or contact with high concentrations of the product, use a self-contained mask or air sent. A mask with a mechanical filter is recommended in case of exposure to particulate matter.

9 - Propriedades físicas e químicas

Solid Aspect. White.

Odor and Odor Threshold Not available.

pH Not applicable. Product insoluble in water.

Melting Point/Freezing Point 47 - 50 °C.

Initial Boiling Point and Boiling Temperature Range 305 - 320 °C (760 mmHg).

Flash Point 175 °C (open cup).

Evaporation Rate Not available.

Flammability (solid, gas) Not available.

Lower/Upper Flammability or Explosive Limit 1.0% - 8.0%.

Vapor Pressure < 0.013 kPa (20°C).

Vapor Density (air = 1) 8.3.

Relative Density (water =1) approx. 0.812 g/cm³ (60°C).

Apparent Density Not available.

Negligible solubility in water.

Partition Coefficient n-octanol/water Not available.

Auto-ignition temperature 235 °C (reference).

Decomposition Temperature Not available.

Viscosity 8.0 cP (60°C)

10 - Estabilidade e reatividade

Chemical Stability Stable under normal conditions of use and storage.

Reactivity No dangerous reactivity is expected.

Possibility of Hazardous Reactions Will not polymerize.

Conditions to Avoid High temperatures, ignition sources and prolonged exposure to air.

Incompatible materials

Avoid contact with:

Strong acids.

Strong oxidizing agents.

Combustible materials.

Metallic salts.

Halogens.

Hazardous Decomposition Products

In case of combustion, it can generate toxic and/or irritating fumes containing:

Oxides of carbon.

Aldehydes.

Ketones.

Product Usage Considerations

Not applicable

11 - Informações toxicológicas

Acute Toxicity

- Oral LD50, rat: 2000 mg/kg.
- Inhalation Not available.
- Dermal LD50, rabbit: 2600 mg/kg.

Skin corrosion/irritation Mild irritant (225 mg, 3 days, male).

Serious eye damage/eye irritation Mild irritant (82 mg, rabbit).

Respiratory or skin sensitization Skin: Non-sensitizing (Guinea Pig).

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Germ cell mutagenicity

Negative for:

In vitro: Ames test.

Carcinogenicity Not available.

Reproductive toxicity

NOAEL, oral, dog: > 1054 mg/kg/day (reproductive organ toxicity).

NOAEL, oral, rat: 1822 mg/kg/day (reproductive organ toxicity).

Specific Target Organ Toxicity - Single Exposure Not available.

Specific target organ toxicity - Repeated exposure NOAEL, oral, rat: 1000 mg/kg/day (systemic toxicity).

Aspiration hazard Not available.

12 - Informações ecológicas

Ecotoxicity

Algae EC50, 96h, *Scenedesmus subspicatus*: 676 mg/L.

Persistence and Degradability

Easily biodegradable.

82.1% after 28 days.

Bioaccumulative Potential

Not expected to bioaccumulate in the environment.

BCF: 56.

Mobility on Ground

Expected to be immobile on ground.

Log Koc: 4.40.

Other Adverse Effects

Not considered hazardous to water

13 - Considerações sobre destinação final

Recommended methods for final disposal

• Product

Prioritize non-generation, reduction, reuse, recycling, co-processing and incineration in authorized facilities, observing specific operating standards in order to avoid damage or risk to health, safety and the environment. Carry out co-processing or incineration in facilities capable of preventing the emission of pollutants into the atmosphere. The final destination must comply with municipal, state and federal legislation and be in accordance with the standards of the agencies local environmental.

• Remains of Products

The same method indicated for the product.

• Packaging

Do not cut or perforate the packaging or perform hot work near them.

Do not remove labels until product is completely removed and packaging cleaned.

Properly allocate prioritizing reuse, recovery and recycling in authorized companies.

All procedures must follow specific operating standards in order to avoid damage or risk to health, safety and the environment.

The destination must comply with municipal, state and federal legislation and be in accordance with the standards of environmental agencies locations.

14 - Informações sobre transporte

ANTT Land Transport Product not classified as dangerous according to Resolution 5232/2016 - Ministry of Transport.

• UN No. N/A

• Proper Shipping Name

Not classified.

• Risk Class Not classified.

• No. of Risk Not classified.

• Unclassified Packing Group.

Maritime Transport IMDG Product not classified as dangerous according to IMDG Code – 2012 Edition –

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IMO (International Maritime Organization).

- UN No. N/A
- Proper Shipping Name Unclassified.
- Risk class Not classified.
- Unclassified Packing Group.
- Unclassified EmS

Air Transport IATA Product not classified as dangerous according to Dangerous Goods Regulations - 56th Edition - IATA (International Air Transport Association).

- UN No. N/A
- Proper Shipping Name Unclassified.
- Risk Class Not classified.
- Unclassified label.
- Unclassified Packing Group.

ADR Land Transport Product not classified as dangerous according to Dangerous Goods by Road – Applicable since 1 January 2011 – Unece (United Nations Economic Commission for Europe).

- UN No. N/A
- Proper Shipping Name Unclassified.
- Risk Class Not classified.
- Unclassified Packing Group.
- Hazard Code Not classified.
- Unclassified Restriction Code.

15 - Informações sobre regulamentações

Resolution 5232/2016- Ministry of Transport.

IMDG Code - 2012 Edition - IMO (International Maritime Organization).

Dangerous Goods by Road (ADR) – Applicable from 1 January 2011 – Unece (United Nations Economic Commission for Europe).

Brazilian Association of Technical Standards (ABNT) - NBR 14725 - Part 1 to 4.

Dangerous Goods Regulations - 56th Edition - IATA (International Air Transport Association).

16 - Outras Informações

Comments

PNOS - Particles not otherwise specified. The substances to which this recommendation applies are those for which there is little data. The recommendation of these TLVs is suggested as a guide, not a TLV as it is impossible to meet the standard level of evidence used to establish a TLV. Recommendations apply to particles that: - No have an exposure limit (TLV) applicable; - Are insoluble or sparingly soluble in water (or, preferably, in aqueous lung fluids, if data are available); and - Have low toxicity (i.e., are not cytotoxic, genotoxic or otherwise chemically reactive with lung tissue, and do not emit ionizing radiation, cause immunosensitization, or others toxic effects other than inflammation or the pulmonary overload mechanism).

References

eChemPortal - The Global Portal to Information on Chemical Substances.

European Chemicals Bureau - <http://ecb.jrc.it>

European Chemicals Agency - <http://echa.europa.eu/>.

2015 Guide to Occupational Exposure Values – ACGIH.

2015 TLVs and BEIs – Based on the Documentation of the Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices – ACGIH.

IUCLID Dataset.

LOLI - ChemADVISOR's Regulatory Database.

Toxnet - Toxicology Data Network.

Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists (EUA).

ADR: European agreement concerning the international carriage of dangerous goods by road.

CAS: Chemical Abstracts Service (American Chemical Society) (EUA)

CE50: Concentração média para 50% da resposta máxima.

CL: Concentração Letal - concentração de uma substância em um meio ambiente que provoca a morte após certo período de exposição.

CL50: Concentração letal para 50% dos animais em teste.

DBO: Demanda Bioquímica de Oxigênio.

DL50: Dose Letal para 50% dos animais em teste.

DLLo: Dose Letal Baixa - quantidade mínima letal de uma substância química para os animais em teste.

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.

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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.

IPVS - Imediatamente Perigoso para Vida ou Saúde.

Kow: Coeficiente de partição n-octanol/água.

LT (NR 15): Limite de Tolerância da Norma Regulamentadora Nº 15 - Atividade e Operações Insalubres do Ministério do Trabalho e Emprego do Brasil.

LOAEL: Menor dose com efeito adverso observado

LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database

NLP: No Longer Polymers.

NIOSH: National Institute for Occupational Safety and Health

NOAEL: Nível onde não se observa efeito adverso

NTP: National Toxicology Program.

OSHA: Occupational Safety and Health Administration (EUA).

PEL-TWA: Limite permitido de exposição - média ponderada no tempo.

RID: Regulations concerning the international transport of dangerous goods by rail.

TLV-STEL: Limite de tolerância - período curto de tempo (15 minutos, máximo).

TLV-TWA: Limite de tolerância - média ponderada no tempo

WGK: Wassergefährdungsklasse (Alemanha) - Classes de Perigos para Água

This Chemical Material Safety Data Sheet has been prepared to the best of our present knowledge and experience, however, do not imply guarantees of any kind. Considering the variety of factors that can affect its processing or application, the information contained in this form does not exempt the processors from the responsibility of run your own tests and experiments.