

FICHA COM DADOS DE SEGURANÇA

Nome do Produto: CLORETO DE POTASSIO

Revisão: 00(Ing)

Data: 22/09/2025

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1 - Identificação

Nome do Produto: CLORETO DE POTASSIO

Número da FDS: 7165

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

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1.1-Outras maneiras de identificação:

Not available.

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

General chemical industry and fertilizers.

2 - Identificação de perigos

Classification of the substance or mixture:

Acute Oral Toxicity - Category 5.

GHS labeling elements, including precautionary statements:

Signal word: Warning.

Hazard statements:

H303 - May be harmful if swallowed.

Emergency response:

P301 + P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Other hazards that do not result in a classification:

Not available.

3 - Composição e Informações sobre os ingredientes

Substance.

Chemical identity: Potassium chloride.

Common name, synonym: Not available.

CAS Registry Number: 7447-40-7.

Impurities contributing to the hazard: Not available.

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4 - Medidas de primeiros-socorros

Description of necessary first aid measures:

Inhalation:

Move the victim to fresh air and keep them at rest. Monitor respiratory function. If the victim is having difficulty breathing, provide oxygen. If necessary, apply artificial respiration. If feeling unwell, consult a doctor. Bring this SDS.

Skin contact:

Immediately remove contaminated clothing and shoes. Flush exposed skin with plenty of water. If necessary, take the patient to the hospital and seek medical advice. Bring this SDS.

Eye contact:

Flush with running water for at least 15 minutes, keeping the eyelids open. Remove contact lenses if necessary. Seek medical advice. Bring this SDS.

Ingestion:

Flush mouth with plenty of water. Do not induce vomiting. Seek medical advice. Bring this SDS.

Most important symptoms and effects, both acute and delayed:

Skin and eye irritation. Feeling unwell.

Indication of immediate medical attention and special treatment required, if necessary:

Keep the victim at rest and warm. Do not give anything by mouth to an unconscious person. Thermal decomposition of the product can release chlorine gas. Exposure to low concentrations causes irritation to mucous membranes and the upper respiratory tract. In high concentrations, it can cause asphyxiation. Consider the risk of pulmonary edema.

5 - Medidas de combate a incêndio

Extinguishing media:

Appropriate extinguishing media:

Fire extinguishers.

Inappropriate extinguishing media:

The product is not combustible.

Specific hazards arising from the substance or mixture:

When exposed to fire, there is a possibility of decomposition with the release of toxic chlorine gases, which may cause acute respiratory problems.

Special protective measures for firefighters:

Wear personal protective equipment, especially respiratory protection. In case of fire, there is a possibility of decomposition with the release of irritating toxic gases (CI). Use a self-contained breathing apparatus (SAF) or a self-contained breathing apparatus (SAF) and PVC clothing.

6 - Medidas de controle para derramamento ou vazamento

Personal precautions, protective equipment, and emergency procedures:

Use PPE.

For non-emergency personnel:

Full protective clothing and self-contained breathing apparatus.

For emergency personnel:

Evacuate the area and avoid contact with the product.

Environmental precautions:

May contaminate waterways, affecting wildlife.

Methods and materials for containment and cleanup:

Collect the material using shovels. Collect in closed containers and label until subsequent treatment.

7 - Manuseio e armazenamento

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols. Provide adequate ventilation in areas where dust forms.

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Conditions for safe storage, including any incompatibilities:

Store preferably in a covered, dry, ventilated area with a waterproof floor.

8 - Controle de exposição e proteção individual

Control Parameters:

Does not contain substances with occupational exposure limits.

Engineering Control Measures:

To reduce the potential for health risks, ensure sufficient ventilation or exhaust ventilation to control ambient concentrations to low levels.

Personal Protective Measures

The characteristics of body protection should be selected based on the concentration and quantity of toxic substances and the specific workplace conditions. The resistance of protective equipment to chemical agents should be clarified with suppliers.

Eye/Face Protection:

Side-shield goggles.

Skin Protection:

Wear long-sleeved coveralls. Protective gloves.

Respiratory Protection:

Wear a respirator with a specific dust filter.

Special Precautions:

Avoid wearing or handling contact lenses. Provide eyewash stations in the area. Never eat, drink, or smoke in the work area.

Thermal Hazards:

Not available.

9 - Propriedades físicas e químicas

Physical state: Solid powder.

Color: White.

Odor: Odorless.

Melting point/freezing point: 773°C.

Boiling point or initial boiling point and boiling range: 1413°C.

Flammability: Not applicable.

Lower explosive/flammability limit: Not applicable.

Upper explosive/flammability limit: Not applicable.

Flash point (or flash point): Not applicable.

Autoignition temperature: Not applicable.

Decomposition temperature: Not applicable.

pH (5% w/v solution): 6.50–8.50.

Kinematic viscosity: Not applicable.

Solubility: 305g/L.

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

Vapor pressure: Not applicable.

Density and/or relative density: 1.00–1.50.

Relative vapor density: Not available.

Particle characteristics: Not available.

10 - Estabilidade e reatividade

Reactivity:

Not applicable.

Chemical stability:

Product stable when stored at room temperature, in closed equipment under normal storage and handling conditions.

Possibility of hazardous reactions:

Not available.

Conditions to avoid:

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Not available.

Incompatible materials:

Not available.

Hazardous decomposition products:

Not available.

11 - Informações toxicológicas

Acute Toxicity:

Information regarding Potassium Chloride: LD50 (oral, rat) – 2600 mg/kg.

Skin Corrosion/Irritation:

May cause mild skin irritation.

Serious Eye Damage/Irritation:

May cause mild eye irritation.

Respiratory or Skin Sensitization:

The product is not expected to cause respiratory or skin sensitization.

Germ Cell Mutagenicity:

Mutagenicity is not expected.

Carcinogenicity:

Carcinogenicity is not expected.

Reproductive Toxicity:

Reproduction and lactation toxicity is not expected.

STOT - Single Exposure:

May cause mild respiratory irritation with coughing and sneezing.

STOT - Repeated Exposure:

The product is not expected to show STO toxicity through repeated exposure.

Aspiration hazard:

The product is not expected to present an aspiration hazard.

12 - Informações ecológicas

Ecotoxicity:

The product is not expected to be ecotoxic.

Persistence and degradability:

The heated product tends to release chlorine.

Bioaccumulative potential:

Gives the soil a high saline concentration.

Mobility in soil:

Product is stable.

Other effects:

Not available.

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 operational standards to avoid damage or risks to health, safety, and the environment. Carry out co-processing or incineration in facilities capable of preventing the emission of pollutants into the atmosphere. Final disposal must comply with municipal,

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state, and federal legislation and comply with the regulations of local environmental agencies.

Packaging:

Do not cut or puncture the packaging or perform hot work near it. Do not remove labels until the product is completely removed and the packaging is clean. Dispose of properly, prioritizing reuse, recovery, and recycling in authorized companies. All procedures must follow specific operational standards to avoid damage or risks to health, safety, and the environment. Disposal must comply with municipal, state, and federal legislation and comply with the regulations of local environmental agencies.

14 - Informações sobre transporte

National and international regulations:

Land transportation: ANTT.

Product not classified as hazardous for land transportation.

Sea transportation: IMDG.

Product not classified as hazardous for sea transportation.

Air transportation: IATA.

Product not classified as hazardous for air transportation.

15 - Informações sobre regulamentações

Specific regulations and safety, health, and environment for the chemical product:

NBR 14725/2023 - Chemical products — Information on safety, health, and the environment — General aspects of the Globally Harmonized System (GHS), classification, SDS, and labeling of chemical products.

Resolution No. 5,998 of November 3, 2022 - Updates the Regulation for the Road Transportation of Hazardous Goods, approves its Supplementary Instructions, and establishes other provisions.

16 - Outras Informações

Important information not specifically described in the previous sections:

This SDS was prepared based on current knowledge of the chemical product and provides information on protection, safety, health, and the environment. It is important to note that handling any chemical substance requires prior knowledge of its hazards. Establish a written emergency plan for actions in the event of a POTASSIUM CHLORIDE spill. Maintain trained staff and conduct periodic practical training.

References:

ABNT – Brazilian Association of Technical Standards. NBR 14725:2023.

Legends and abbreviations:

Not available.