

**SODIUM ACETATE TRYHYDRATE**

REVISION DATE: 09/20/2022

1. - PRODUCT AND COMPANY IDENTIFICATION**Product name:** Sodium Acetate Trihydrate.**Internal Code of product identification:** 101.35.2**Company name:** USIQUÍMICA DO BRASIL LTDA.**Address:** Rua da Lagoa, 431 - Cumbica - Guarulhos - SP.**Company Phone:** + 55 11 3821-7000 - PBX system.**Emergency phone:** SUATRANS - COTEC - Environmental Emergency.

DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.

193 – Firefighters.

Main recommended uses for the substance: Industry of paints, leather, pharmaceuticals, photography, soaps, detergents, tanneries and intermediate agent of chemical processes.**2. - HAZARD IDENTIFICATION****Classification of the substance or mixture (according to ABNT NBR 14.725-2)**This substance is not classified as hazardous according to the GHS **Labeling****element (according to ABNT NBR 14.725-2)**

No labeling in accordance with the G.H.S.

Other hazards that do not result in a classification

No information found.

Appropriate label elements (GHS classification):

LABEL ELEMENTS	DATA
Product identification and supplier emergency telephone number.	Commercial Name: Sodium Acetate Trihydrate. Synonym: Sodium ethanoate, sodium salt trihydrate. Emergency phone: SUATRANS - COTEC - Environmental Emergency. DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.
Chemical composition (CH ₃ COONa.3H ₂ O)	98% minimum.
Hazard pictograms	Product not classified as dangerous according to the G.H.S.
Warning words	Product not classified as dangerous according to the G.H.S.
Danger phrases	Product not classified as dangerous according to the G.H.S.
Caution Phrases	Product not classified as dangerous according to the G.H.S.
Other information	Not classified as a dangerous product, according to Resolution 5947/21ANTT

3. - COMPOSITION AND INFORMATION ON THE INGREDIENTS**Substance:** Sodium Acetate Trihydrate.**Chemical or common name:** Sodium acetate.**Synonym:** Sodium ethanoate, sodium salt trihydrate.**Composition:** 98% minimum.**CAS Registration No.:** 6131-90-4.**Impurities that contribute to the danger:** Not applicable.**4. - FIRST AID MEASURES****First aid measures:****- Inhalation:** Remove the victim to fresh air and keep at rest in a position comfortable for breathing. Provide oxygen or artificial respiration if necessary. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER/or a doctor. Take this MSDS**- Skin contact:** Flush exposed skin with sufficient amount of water to remove material, for at least



SODIUM ACETATE TRYHYDRATE

REVISION DATE: 09/20/2022

15 minutes. Remove contaminated clothing and shoes. In case of skin irritation: Consult a physician. Take this MSDS.

- **Eye contact:** Rinse thoroughly with water for several minutes. Keep eyelids apart and flush eyes with plenty of water for at least 15 minutes. If contact lenses are used, remove them if that is easy and rinse again. If eye irritation persists: Consult a physician. Take this MSDS.

- **Ingestion:** Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. If possible, have the victim ingest activated charcoal. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER/or a doctor. Take this MSDS.

Most important symptoms and effects, acute or delayed: Irritating effect.

Notes to the physician: Treat symptomatically. Treatment should focus on controlling the patient's symptoms and clinical reactions. After first aid, it will only be necessary to treat the symptoms that reappear.

5. - FIREFIGHTING MEASURES

Fire: Autoignition temperature = 611° C.

Like most organic solids, fire is possible at elevated temperatures or in contact with an ignition source.

Extinguishing media: Appropriate: Water spray, chemical powder, foam or carbon dioxide (CO₂).

Not Suitable: Waterjet.

Substance-specific hazards: Vapors are heavier than air and may spread along floors. In the event of strong heating, explosive mixtures with air may be formed. In case of fire, dangerous flammable gases and vapors are formed.

Firefighting team protection measures: Self-contained breathing apparatus (SCBA) with positive pressure and full protective clothing. Product packaging involved in the fire must be cooled with water mist.

6. - CONTROL MEASURES FOR SPILLING OR LEAKING

Personal precautions, protective equipment and emergency procedures

- **For the staff that is not part of the emergency services:** Avoid contact with product. Do not inhale the powders.

- **For the staff of the emergency department:** Use personal protective equipment and respiratory protective equipment.

Precaution for the environment: Prevent the spilled product from reaching water courses and sewers. Do not allow contact with soil, surfaces or groundwater.

Methods and materials for containment and cleaning: Carefully clean floors and objects, observing environmental regulations. Collect the product with a clean shovel or other instrument that does not disperse the product. Place material in appropriate containers and remove to safe place. For final disposal, proceed according to Section 13 of this MSDS.

7. - HANDLING AND STORAGE

Prevention of worker's exposure:

- Handle in a ventilated area or with a general ventilation/local exhaust system. Avoid formation of vapors/mists. Avoid inhaling the product if vapors or mists are formed. Inspect containers for damage or leaks before handling.

Precautions for safe handling:

- Provide proper exhaust ventilation in machines and in places where dust can be generated. Contaminated equipment should be cleaned immediately with water. Floors, walls and other surfaces should be regularly cleaned. It is forbidden to smoke, eat and drink in the application area. Avoid dust formation. Avoid contact with incompatible materials. Use personal protective equipment as described in section 8.

Hygiene measures:

- Wash hands and face thoroughly after handling and before eating, drinking, smoking or using the bathroom. Contaminated clothing must be exchanged and washed before use.

Conditions for safe storage, including any incompatibilities:

Prevention of fire and explosion:

- The product is not expected to present a fire or explosion hazard.

**SODIUM ACETATE TRYHYDRATE**

REVISION DATE: 09/20/2022

Suitable conditions:

- Store in such a way as to avoid the generation of dust. Store in a cool, dry and ventilated place. Protect against physical damage. Isolate from any source of heat or ignition. Observe all cautions and precautions listed for the product.

Conditions that must be avoided:

- High temperatures. Ignition sources such as sparks and flames.

Packaging materials:

- Store in tightly closed packaging. Polyethylene bag, coated with raffia bag.

8. - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters: It does not contain substances with occupational exposure limit values.

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

Personal protection measures:

Protection for the eyes/face: Safety glasses and easy access to eyewash stations.

Skin protection: Protective gloves and clothing covering the body.

Respiratory protection: Mask against dust.

Thermal hazards: Not available.

9. - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystals.

Odor: Weak odor of acetic acid.

pH, 10% aqueous solution: 7.0 - 9.0.

Melting point / freezing point: Not available.

Initial boiling point and rate of boiling temperature: Flash point: Not available.

Evaporation rate: Not available.

Flammability: Not available.

Lower/upper flammability or explosiveness limit: Not available **Vapor pressure:** Not applicable.

Vapor Density: Not applicable.

Relative Density: Not available.

Solubility in water (0° C): water soluble

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

Auto-ignition temperature: Not available.

Decomposition temperature: Not available. Viscosity: Not applicable.

10. - STABILITY AND REACTIVITY

Reactivity: In the event of strong heating, explosive mixtures with air may be formed.

Chemical stability: Stable under normal conditions of use and storage.

Possibility of hazardous reactions: Nitrates.

Conditions to avoid: Strong heating.

Incompatible materials: Not available.

Hazardous decomposition products No hazardous decomposition products known.

11. - TOXICOLOGICAL INFORMATION**Acute toxicity:**

Oral LD50 Rat: 3,530 mg/kg (Anhydrous substance)
(RTECS)

Inhalation LC50 Rat: > 30 mg/l; 1h; Powder/Mist
(Anhydrous Substance) (RTECS)

**SODIUM ACETATE TRYHYDRATE**

REVISION DATE: 09/20/2022

Dermal LD50 Rabbit: > 10000 mg/kg

(Anhydrous substance) (RTECS)

Skin corrosion/irritation: Irritating.

Severe ocular lesions/eye irritation: Irritating.

Respiratory or skin sensitization: Not available.

Germ cell mutagenicity: Not available.

Carcinogenicity: Not available.

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:**

Toxicity to fish LC50 *Lepomis macrochirus* (Sunfish): 5,000 mg/l; 24 h

(Anhydrous substance) (Lit.)

Toxicity to daphnia and other aquatic invertebrates. EC50 *Daphnia magna* (water flea or daphnia): > 1,000 mg/l; 48 hours

(Anhydrous substance) (IUCLID)

Toxicity to bacteria EC50 *Pseudomonas putida*: 7,200 mg/l; 18 h

(Anhydrous substance) (IUCLID)

Persistence and degradability: Not available.

Bioaccumulative potential: No bioaccumulation is expected.

Mobility in soil: Not available.

Other adverse effects: Discharge into the environment must be avoided.

13. - CONSIDERATIONS ABOUT TREATMENT AND DISPOSAL**Recommended methods for final disposal:**

The treatment and disposal of product residues must be done in a suitable environment, by people trained in 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 all Federal, State and local agencies receive proper notice of spills and disposal methods. CONAMA Resolution 005/1993, Law No. 12,305, as of August 2, 2010 (National Solid Waste Policy).

Product waste:

Consult environmental regulatory agencies for advice on acceptable regulatory practices. Come in contact with relevant local authorities. It can be incinerated when in compliance with local regulations. Or dispose of in an approved chemical waste landfill.

Used Package:

Empty containers must be drained and covered before handling and transport operations. If the package is not properly washed and decontaminated, it is considered to contain the product.

14. - TRANSPORT INFORMATION**National and International Regulations****Land:**

Resolution No. 5947/2021 of the Brazilian National Land Transport Agency (ANTT), Approves the Complementary Instructions to the Regulation of Land Transport of Dangerous Goods and its amendments.

Waterway:

DPC – Directorate of Ports and Coasts (Transport in Brazilian waters) Maritime Authority Regulations (NORMAM)

NORMAM 01/DPC: Vessels Used in Open-seas Navigation

- Air Transport:

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

RBAC N°175 - (BRAZILIAN CIVIL AVIATION REGULATION) - TRANSPORTATION OF DANGEROUS ITEMS IN CIVIL AIRCRAFT

**SODIUM ACETATE TRYHYDRATE**

REVISION DATE: 09/20/2022

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)

UN number:

Not classified as dangerous for transport in different modes.

15. - REGULATORY INFORMATION**Specific regulations for the chemical product:**

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

Standard ABNT-NBR 14725:2014;

Ordinance No. 229, as of May 24, 2011 – Changes Regulatory Standard No. 26.

16. - OTHER INFORMATION

The information on this sheet corresponds to the current state of our knowledge and experience of the product and is not exhaustive. It applies to the product under the conditions specified, unless otherwise stated. In case of combinations or mixtures, make sure that no new danger can appear. This information does not, in any case, exempt the user of the product from complying with all legislative, regulatory and administrative texts relating to the product, safety, hygiene and protection of human and environmental health.

Bibliographical References:

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on "Documentation" of Occupational Exposure Limits (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Translation Brazilian Association of Occupational Hygienists. São Paulo, 2016.

BRAZIL MINISTRY OF LABOR AND EMPLOYMENT (MTE). Regulatory Standard (NR) No. 7: Occupational Health Medical Control Program. Brasília, DF. Jun. 1978.

BRAZIL MINISTRY OF LABOR AND EMPLOYMENT (MTE). Regulatory Standard (NR) No. 15: Unhealthy activities and operations. Brasília, DF. Jun. 1978.

US EPA. 2011. EPI Suite™ for Microsoft® Windows, v 4.10. United States: Environmental Protection Agency, Washington. 2011. Available at:

<<http://www.epa.gov/oppt/exposure/pubs/episuite.htm>>. Access on: September, 2022

Globally Harmonized System of Classification and Labelling of Chemicals (GHS). 9. rev. United Nations, 2021.

HSDB- HAZARDOUS SUBSTANCES DATA BANK. Available at: <<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>>. Access on: September, 2022

IARC- INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at:

<<http://monographs.iarc.fr/ENG/Classification/index.php>>. Access on: September, 2022

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <<http://www.inchem.org/>>. Access on: September, 2022

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.I.]: European chemical Bureau. Available at: <<http://ecb.jrc.ec.europa.eu>>. Access on: September, 2022

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at:

<<http://www.cdc.gov/niosh/>>. Access on: September, 2022

NITE-GHS JAPAN - NATIONAL INSTITUTE OF TECHNOLOGY AND EVALUATION. Available at:

<http://www.safe.nite.go.jp/english/ghs_index.html>. Access on: September, 2022

U.S. ENVIRONMENTAL PROTECTION AGENCY. ECOSAR - Ecological Structure-Activity Relationships. Version 1.11 Available at: <<http://www.epa.gov/oppt/newchems/tools/21ecosar.htm>>. Access on: September, 2022