

# SAFETY DATA SHEET

Date Printed: 04/23/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

Product Identifier: (4N) 99.99% Lithium tert-Butoxide

Product Code: LI-TBOX-04-P

CAS Number: 1907-33-1

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

## **SECTION 2. HAZARDS IDENTIFICATION**

Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Flammable solids Category 2 Acute oral toxicity Category 4 Skin Corrosion/Irritation Category 1 B Serious Eye Damage/Eye Irritation Category 1 Label Elements Signal Word Danger Hazard Statements Flammable solid Harmful if swallowed Causes severe skin burns and eye damage



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion Rinse mouth Do NOT induce vomiting Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Reacts violently with water

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component / CAS-No / Weight % 2-Propanol, 2-methyl-, lithium salt / 1907-33-1 / >95

## **SECTION 4. FIRST AID MEASURES**

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects

None reasonably foreseeable. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Notes to Physician

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media Dry chemical, soda ash, lime or sand. approved class D extinguishers. Unsuitable Extinguishing Media No information available Flash Point No information available Method - No information available Autoignition Temperature Not applicable **Explosion Limits** Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available Specific Hazards Arising from the Chemical Flammable. Water reactive. Combustible material. Produce flammable gases on contact with water. Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxide (CO2). Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. NFPA Health - 0 Flammability - 0 Instability - 0 Physical hazards W

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Environmental Precautions Should not be released into the environment. Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## **SECTION 7. HANDLING AND STORAGE**

Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. Storage

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Keep away from heat, sparks and flame. Corrosives area. Flammables area. Keep under nitrogen. Keep away from water or moist air. Keep containers tightly closed in a dry, cool and well-ventilated place

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. **Engineering Measures** None under normal use conditions. **Personal Protective Equipment** Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. **Respiratory Protection** No protective equipment is needed under normal use conditions. **Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Powder Solid Appearance Off-white Odor No information available Odor Threshold No information available pH 7 Melting Point/Range No data available Boiling Point/Range No information available Flash Point No information available **Evaporation Rate Not applicable** Flammability (solid,gas) No information available Flammability or explosive limits Upper No data available Lower No data available Vapor Pressure No information available Vapor Density Not applicable Specific Gravity 0.890 Solubility No information available Partition coefficient; n-octanol/water No data available Autoignition Temperature Not applicable Decomposition Temperature No information available Viscosity Not applicable Molecular Formula C4H9LiO Molecular Weight 80.06

## SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard Yes Stability Reacts violently with water. Hygroscopic. Moisture sensitive. Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Exposure to moist air or water. Incompatible Materials Acids, Water, Oxidizing agent Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2) Hazardous Polymerization No information available. Hazardous Reactions None under normal processing.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Product Information **Component Information Toxicologically Synergistic** Products No information available Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation No information available Sensitization No information available Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects, both acute and delayed Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Endocrine Disruptor Information No information available Other Adverse Effects The toxicological properties have not been fully investigated

## **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity Do not empty into drains. Persistence and Degradability Soluble in water. Persistence is unlikely based on information available. Bioaccumulation/ Accumulation No information available. Mobility Will likely be mobile in the environment due to its water solubility

## SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **SECTION 14. TRANSPORT INFORMATION**

DOT **UN-No UN2925** Proper Shipping Name Flammable solid, corrosive, organic, n.o.s. Technical Name 2-Propanol, 2-methyl-, lithium salt Hazard Class 4.1 Subsidiary Hazard Class 8 Packing Group II TDG **UN-No UN2925** Proper Shipping Name FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S. Hazard Class 4.1 Subsidiary Hazard Class 8 Packing Group II IATA **UN-No UN2925** Proper Shipping Name Flammable solid, corrosive, organic, n.o.s. Hazard Class 4.1 Subsidiary Hazard Class 8 Packing Group II IMDG/IMO **UN-No UN2925** Proper Shipping Name Flammable solid, corrosive, organic, n.o.s. Hazard Class 4.1 Subsidiary Hazard Class 8 Packing Group II

#### **SECTION 15. REGULATORY INFORMATION**

**U.S. Federal Regulations** SARA 313 Not applicable SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Not applicable Clean Air Act Not applicable **OSHA** - Occupational Safety and Health Administration Not applicable **CERCLA** Not applicable California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. State Right-to-Know Regulations Not applicable U.S. Department of Transportation Reportable Quantity (RQ): N DOT Marine Pollutant N DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product does not contain any DHS chemicals. Other International Regulations Mexico - Grade No information available

#### **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is

believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.