

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	Sodium Bis(2-methoxyethoxy)aluminum Dihydride (70% in Toluene, ca. 3.6mol/L) S0467		
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.		
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com	Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624		
2. HAZARD(S) IDENTIFICATION			
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Dermal [Category 4] Eye Damage/Irritation [Category 1] Toxic to Reproduction [Category 1A] Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 3] Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Aspiration Hazard [Category 1] Flammable Liquids [Category 2] Substances and Mixtures which, in Contact with Water, Emit Flammable Gases [Category 1] Aquatic Hazard (Acute) [Category 2] Skin Corrosion/Irritation [Category 1B]		
Signal word:	Danger!		
Hazard Statement(s):	Highly flammable liquid and vapor In contact with water releases flammable gases which may ignite spontaneously Harmful in contact with skin Causes severe skin burns and eye damage May damage fertility or the unborn child May be fatal if swallowed and enters airways Toxic to aquatic life Causes damage to: Central Nervous System May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure: Liver Kidney Central Nervous		

Pictogram(s) or Symbol(s):



System

Precautionary Statement(s): [Prevention]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Do not allow contact with water. Handle under inert gas. Protect from moisture. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on

TCI AMERICA

[Storage]	skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If exposed: Call a poison center or doctor. Brush off loose particles from skin. Immerse in cool water or wrap with wet bandages. In case of fire: Use dry chemical or dry sand to extinguish. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep container tightly
[Storage]	closed. Store locked up.
[Disposal]	Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).
Hazards not otherwise classified: [HNOC]	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS Substance/mixture: Mixture Sodium Bis(2-methoxyethoxy)aluminum Dihydride (70% in Toluene, ca. 3.6mol/L) **Components:** Percent: CAS RN: 22722-98-1 Molecular Weight: 202.16 Chemical Formula: C6H16AINaO4 Sodium Bis(2-methoxyethoxy)aluminum Dihydride (70%) 22722-98-1 Hazardous ingredient(s): Toluene (30%) 108-88-3 Sodium Dihydridobis(2-methoxyethoxy)aluminate (70% in Toluene, ca. 3.6mol/L) Synonyms: 4. FIRST-AID MEASURES

Description of first aid measures	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Symptoms/effects:	
Acute:	Cough. Dizziness. Pain. Redness. Drowsiness.
Delayed:	May have effects on the respiratory tract.

Indication of any immediate medical attention: Not available. Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, dry sand.
Unsuitable extinguishing media:	Water Carbon dioxide
Hazardous combustion products:	These products include: Carbon oxides Metallic oxides
Other specific hazards:	Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.
4 ACCIDENTAL DELEASE MEAS	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for containment	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In
and cleaning up:	case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Prevention of secondary hazards:	Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment. Since there is a possibility of igniting behind when removal of a leakage thing is imperfect, it is careful enough.

7. HANDLING AND STORAGE				
Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smo measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wa and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be g Avoid all contact! Keep away from any possible contact with water, because of violent reaction and possible fla Use well-dried equipment. Handle under inert gas. Don't leave used equipment or rag. This p may ignite if it is left stuck on combustibles such as paper, rags, etc. Conditions for safe storage, including any incompatibilities Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Light-sensitive Moisture-sensitive Comply with laws.				
8. EXPOSURE CONTROLS / P	PERSONAL PROTECTION			
Exposure limits:				
Appropriate engineering controls		Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.		
Personal protective equipment Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Use respirators appro regulations. Impervious gloves. Safety goggles. A fac	5		
9. PHYSICAL AND CHEMICAL	PROPERTIES			
Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Very pale No data available No data available No data available	yellow		
Melting point/freezing point:	No data available pH: No data available (Toluene) -95°C		No data available	
Boiling point/range:	No data available (Toluene) 110°C	Vapour pressure:	No data available.	
Decomposition temperature: Relative density:	No data available 1.02	Vapour density: Dynamic Viscosity:	No data available No data available	
Kinematic viscosity:	No data available			
Log Pow:	No data available	o data available Evaporation rate(Butyl No data available Acetate=1):		
Log Pow:				

Autoignition temperature: Flammability or explosive limits:

Lower:

Upper:

No data available

7% 1.3%

Flash point: Flammability(solid, gas):

Solubility(ies):
[Water]No data available
No data available[Other solvents]No data available

4°C (39°F)

No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	May spontaneously ignite or release flammable gases when in contact with water.
Conditions to avoid:	Spark, Open flame, Static discharge, Moisture
Incompatible materials:	Oxidizing agents, Water, Alcohols, Carbon dioxide, Carbon tetrachloride
Hazardous decomposition products:	Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Aspiration hazard: May be fatal if swallowed and enters airways. Target organ(s): Causes damage to: Central Nervous System May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure: Liver Kidney Central Nervous System				
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish: Crustacea: Algae:	No data available No data available No data available			

Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³ /mol):	No data available

13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN3399	Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable	Class or Division: 4.3 Dangerous when wet material (water reactive)	Subrisk(s): 3 Flammable liquid	Packing Group: I
IATA UN number: UN3399	Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable	Class or Division: 4.3 Dangerous when wet material (water reactive)	Subrisk(s): 3 Flammable liquid	Packing Group: I
IMDG UN UN3399 numb er:	Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable	Class or Division: 4.3 Dangerous when wet material (water reactive)	Subrisk(s): 3 Flammable liquid	Packing Group: I
Air Transport: EmS number:	Cargo Aircraft Only. F-G, S-N			

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations			
CERCLA Hazardous substance and Re SARA 313:	Not Listed		
SARA 302:	Not Listed		
State Regulations			
State Right-to-Know			
Massachusetts	Not Listed		
New Jersey	Not Listed		
Pennsylvania	Not Listed		
California Proposition 65:	Not Listed		
Other Information			
NFPA Rating:		HMIS Classification:	
Health: 2		Health:	2
Flammability: 3		Flammability:	3
Instability: 3		Physical:	3
International Inventories			
Canada: DSL	On DSL		
EC-No:	245-178-2		
16. OTHER INFORMATION			

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.