

SAFETY DATA SHEET

4, 4'(5')-di-(t-butylcyclohexano)-18-crown-6 SDS

Revision Date: 05-Jun-15

Section 1: Chemical Product and Company Identification

Product Name 4, 4'(5')-di-(t-butylcyclohexano)-18-crown-6
Product Number(s): SR-SX-B01
Product Synonym(s):
Identified Uses: Laboratory chemicals, manufacture of substances
Manufacturer: Eichrom Technologies LLC General (8-5 CST M-F)
1955 University Lane Information: 800-422-6693 (in USA)
Lisle, Illinois 60532 630-963-0320

24 Hour Emergency Number:

CHEMTREC: 800-424-9300

Section 2: Hazard(s) Identification



GHS Signal Word: **Warning**
GHS Classification of substance or mixture: Acute toxicity (Category 4)
Hazard Statement(s):
H302+H312+H332 Harmful if swallowed, in contact with skin, or if inhaled.

Prevention:

P261 Avoid breathing vapors.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, clothing, and eye protection.

Response:

P301+P312+P330 IF SWALLOWED: Call a POISON CONTROL CENTER or doctor if you feel unwell. Rinse mouth.
P302+P350+P312 IF ON SKIN: Gently wash with plenty of soap and water. Call a doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340+P312 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CONTROL CENTER or doctor if you feel unwell.
P362+P364 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/container in accordance with federal, state, and local regulations.

Section 3: Composition / Information on Ingredients

Component	CAS_Number	Percentage Range
4,4'(5') di-t-butylcyclohexane-18-crown-6	223719-29-7	>95%
Unidentified impurities		<5%

Section 4: First-aid Measures

General Advice	The hazardous properties of this material have not been established. Treat material as if it were toxic when evaluating first aid requirements.
Ingestion	Contact local poison control center
Skin Contact	Wash immediately with soap and copious amounts of water. Remove and wash contaminated clothing promptly. If irritation develops, seek medical attention.
Eye Contact	If eye irritation persists, get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Inhalation	Remove to fresh air. If breathing is labored, administer oxygen. If not breathing, give artificial respiration. Seek medical attention.

Section 5: Firefighting Measures

Extinguishing Media	Foam, CO2, Dry Chemical, Water Spray
Fire and Explosion Hazards	Highly toxic and irritating fumes may be released and extinguishing water runoff may be toxic.
Protective Equipment	Wear positive pressure self-contained breathing apparatus and full personal protective equipment.
Special Hazards	Possible combustion products include carbon dioxide and carbon monoxide, as well as unidentified compounds.

Section 6: Accidental Release Measures

	Use proper personal protect equipment (specified in section 8)
Methods and materials for containment and clean-up	Ventilate area and wash spill site after material pickup is complete. Use organic solvent, such as methylene chloride, to clean affected area. Scrape up material and transfer to a closed, dry container for disposal.
Reference to other sections	For disposal see section 13.

Section 7: Handling and Storage

Specific End Use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.
Conditions for safe storage	Normal warehouse storage in cool, dry area is satisfactory.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	Mechanical exhaust is required.
Exposure Controls	Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product
Skin Protection	Wear protective gloves and clothing
Respiratory protection	Do not breathe vapors. Use NIOSH/MSHA approved respirator when handling material outside of mechanical exhaust. An air-purifying respirator with an organic vapor cartridge or canister may be permissible.

Section 9: Physical Properties

Information on basic physical and chemical properties

Appearance:	Liquid Clear to Yellow	Explosion Limits (Upper/Lower):	Not Applicable
Odor:	Characteristic	Flash Point:	Not Applicable
Odor Threshold:	Not Established	Flammability:	Not Established
pH:	Not Established	AutoIgnition Temperature:	Not Established
Melting Point:	Not Established	Decomposition Temperature	Not Established
Boiling Point:	Not Established		
Relative Density:	1.1 g/mL at 23°C	VaporPressure:	Negligible at 20°C
Solubility:	Insoluble in water	VaporDensity:	Not Established
Partition Coefficient:	Not Established	Evaporation Rate:	Not Established
Viscosity:	Not Established, but very viscous		

Section 10: Stability and Reactivity

Reactivity	No hazardous reactions if stored and handled as indicated.
Chemical Stability	Stable under normal handling and storage conditions.
Hazardous reactions	Reacts with strong oxidizing agents.
Conditions to Avoid	No relevant information available.
Materials to Avoid	Contact with strong acids will degrade material. Contact with strong oxidizers will degrade material.
Hazardous decomposition Products	Possible combustion products include carbon monoxide and carbon dioxide. No hazardous decomposition products if stored and handled as indicated. See also section 5.
Special Hazards	Possible combustion products include carbon dioxide and carbon monoxide, as well as unidentified compounds.

Section 11: Toxicology Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Acute Toxicity	
Oral Effects	Oral LD50 has not been determined. Acute toxicity via the oral route of administration expected to be low.
Inhalation Effects	No data available for acute inhalation effects. Acute toxicity via the inhalation route of administration expected to be low.
Dermal Effects	Dermal LD50 has not been determined.
Skin corrosion/irritation	No test data available regarding skin irritation. Slight irritation expected.
Serious eye damage/irritation	No test data available regarding eye irritation. Slight irritation expected.
Respiratory or skin sensitization	No data available regarding respiratory sensitization effects of this product.
Germ Cell Mutagenicity	No data available regarding mutagenic effects of this product.
Carcinogenicity	No data available regarding carcinogenic effects of this product.
Reproductive Toxicity	No data available regarding reproductive effects of this product.
Specific Target Organ Toxicity	
Single Exposure	No data available regarding specific target organ toxicity single exposure.
Repeated Exposure	No data available regarding specific target organ toxicity repeated exposure.
Aspiration Hazard	No data available regarding the aspiration hazard of this product.

Section 12: Ecological Information

No data are available on the adverse effects of this material on the environment.

Section 13: Disposal Considerations

General	Dispose of contents/container in accordance with federal, state, and local regulations.
Unused:	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Used:	For material contaminated with hazardous materials, dispose of mixture as hazardous material according to local, state, and federal regulations.

Section 14: Transport Information

UN Number UN2810

**Land Transport
(US DOT)**

Hazard Class	6.1
Packing Group	
Hazard Label	6.1
Proper Shipping Name	Toxic, liquid, organic, n.o.s. (Di-t-butylidicyclohexano-18-crown-6), 6.1, III

**Air Transport
(IATA)**

Hazard Class	6.1
Packing Group	
Hazard Label	6.1
Proper Shipping Name	Toxic, liquid, organic, n.o.s. (Di-t-butylidicyclohexano-18-crown-6), 6.1, III

**Water Transport
(IMDG)**

Hazard Class	6.1
Packing Group	
Hazard Label	6.1
Proper Shipping Name	Toxic, liquid, organic, n.o.s. (Di-t-butylidicyclohexano-18-crown-6), 6.1, III

Section 15: Regulatory Information

US Federal Regulations

Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

Section 16: Other Information

SDS Prepared By: Eichrom Technologies LLC
Revision Updated to GHS SDS format, including classification

The information set forth herein has been gathered from standard reference materials and is to the best knowledge and belief of Eichrom Technologies LLC, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and does not suggest or guarantee that the hazard precautions or procedures mentioned are the only ones that exist. Eichrom Technologies LLC makes no warranties, express or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefore.