Safety Data Sheet

Review Date : 18-Jan-2025

Section 1 - Chemical Product and Company Identification

Product Name	Di-tert-Butyldicarbonate (BOC Anhydride, DiBOC) extrapure, 98.5 -101.5%
Product Code	B-00446
CAS No	24424-99-5
Use for	Laboratory Chemicals.
Company Name	Bio-Chem Chemicals
Address	5455, Nicholson Road Science Market , Ambala Cantt.133001 Haryana(India)

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
24424-99-5	Di-tert-butyl dicarbonate	98.5 -101.5	246-240-1

No components need to be disclosed according to the applicable regulations.

Section 3 - Hazards Identification

Danger! Flammable solid. May be fatal if inhaled. May cause sensitization by skin contact. Causes eye, skin, and respiratory tract irritation.

Target Organs: Central nervous system, respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: May cause skin irritation. May be harmful if absorbed through the skin. May cause sensitization by skin contact.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: May be fatal if inhaled. Causes respiratory tract irritation.

Chronic: Repeated or prolonged exposure may cause allergic reactions in sensitive individuals.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid.

Inhalation: POISON material. If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable solid.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide. Water may be ineffective.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.

Storage: 2 to 8C (Refrigerate). Store in a tightly closed container. Store in a dry area. Flammables-area.Keep refrigerated.

Section 8 - Exposure Control / Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Melting Point: 22 - 24 deg C
Molecular Formula: C**10**H**18**O**5**
Molecular Weight: 218.25

Section 10 - Stability and Reactivity

Chemical Stability: Moisture sensitive.
Conditions to Avoid: Incompatible materials, ignition sources, dust generation, excess heat, exposure to moist air or water.
Incompatibilities with Other Materials : Reducing agents, acids, bases.
Hazardous Decomposition Products : Carbon monoxide, carbon dioxide, n-butanol, isobutylene.
Hazardous Polymerization : Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 24424-99-5: HT0230000
LD50/LC50: RTECS:**CAS# 24424-99-5:** Inhalation, rat: LC50 = 100 mg/m3/4H Other: One hour LC50 can be approximated as 400 mg/1000 liter or .4 mg/liter.
Carcinogenicity: Di-tert-butyl dicarbonate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other:

Do not empty into drains.

Section 13 - Disposal Considerations

No information found

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Toxic Solids, Flammable, Organic, N.O.S.	Toxic Solids, Flammable, Organic, N.O.S.	Toxic Solids, Flammable, Organic, N.O.S.
Hazard Class:	6.1(4.1)	6.1(4.1)	6.1(4.1)
UN Number:	2930	2930	2930
Packing Group:	II	II	II

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.