

Carbofuran-d3: sc-207405



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical and Company Information

Chemical Name Carbofuran-d3

Synonyms 2,3-Dihydro-2,2-dimethyl-7-benzofuranol N-Methylcarbamate-d3; Bay 70143-d3; NIA-10242-d3; Furadan-d3;

Catalog Nbr sc-207405

Supplier Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

Cas Reg. No 1007459-98-4

Emergency ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

Section 2 - Hazardous Ingredients / Identity Information

Emergency Overview

Target Organs : Cardiovascular system., Central nervous system, Blood

Other hazards which do not result in classification : Lachrymator.

hmis classification: health hazard: 4: flammability: 0 :physical hazards: 0

Section 3 - Physical/Chemical Characteristics

<i>Boiling Point</i>	N/A	<i>Apearance and Odor</i>	White Solid
<i>Vapor Pressure</i>	N/A	<i>Specific Gravity(H2O=1)</i>	N/A
<i>Vapor Density</i>	N/A	<i>Melting Point</i>	150-153°C
<i>Solubility in Water</i>	N/A	<i>Evaporation Rate (Butyl Acetate=1)</i>	N/A
<i>Molecular Formula</i>	C12H12D3NO3		
<i>Molecular Weight</i>	224.27		

Section 4 - Reactive Data

<i>Stability</i>	Stable	<i>Incompatability (Materials to Avoid)</i>	Strong Oxidizing Agents
<i>Conditions to Avoid</i>	Strong oxidizers	<i>Hazardous Polymerization</i>	will not occur
<i>Hazardous Decomposition or Byproducts</i>	Toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides		

Section 5 - Control Measures

<i>Respiratory Protection</i>	Niosh/Msha approved respirator	<i>Ventilation</i>	use in hood
<i>Protective Gloves</i>	chemical resistant gloves	<i>Eye Protection</i>	chemical safty goggles
<i>Other Protective Clothing</i>	lab coat or apron	<i>Other Protection</i>	safety shower and eye bath

Section 6 - First Aid Measures

<i>Inhalation</i>	Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult give oxygen. Seek medical attention.
<i>Skin</i>	Rinse with copious amounts of water for 15 min, remove contaminated clothing and shoes.
<i>Ingestion</i>	Rinse mouth out with water provided the person is conscious. Call a physician.
<i>Eyes</i>	Flush eyes with copious amounts of water for atleast 15 min, separating the eyelids with fingers.

Section 7 - Health Hazard Data

Health Hazards (Acute and Chronic)

Acute toxicity

LD50 Oral - rat - 5 mg/kg

LC50 Inhalation - guinea pig - 4 h - 43 mg/m³

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Somnolence (general depressed activity). Behavioral:Convulsions or effect on seizure threshold.

LC50 Inhalation - rat - 85 mg/m³

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Gastrointestinal:Changes in structure or function of salivary glands. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

LD50 Dermal - rabbit - 885 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (GHS)

no data available

Specific target organ toxicity - repeated exposure (GHS)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be fatal if inhaled. May cause respiratory tract irritation.

Ingestion May be fatal if swallowed.

Skin Toxic if absorbed through skin. May cause skin irritation. May be fatal if absorbed through skin. Eyes May cause eye irritation.

Signs and Symptoms of Exposure

May cause cyanosis., Cough, Shortness of breath, Headache, Nausea, Vomiting, Gastrointestinal disturbance, Incoordination., Lachrymation, Convulsions

ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 0.38 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates. mortality NOEC - *Daphnia* - 0.001 mg/l - 7 d

EC50 - *Daphnia magna* (Water flea) - 0.0018 mg/l - 48 h

mortality LOEC - *Daphnia* - 0.003 mg/l - 7 d

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. no data available

Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract.

Medical Conditions

Generally Aggravated by Exposure

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated

Section 8 - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Precautions to Be Taken in Handling and Storage

Keep container closed, light sensitive, keep away from heat and open flame, store under nitrogen, refrigerate. Store at -20° C.

Section 9 - Fire and Explosion Hazard Data

Extinguishing Media

Water spray. Carbon dioxide, Dry chemical powder or appropriate foam.

Special Fire Fighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

Section 10 - Transportation Information and regulatory information**DOT (US)**

UN-Number: 2811 Class: 6.1 Packing group: I

Proper shipping name: Toxic solids, organic, n.o.s. (2,3-Dihydro-2,2-dimethylbenzofuran-7-yl N-methylcarbamate)

Reportable Quantity (RQ): 10 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN-Number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2,3-Dihydro-2,2-dimethylbenzofuran-7-yl N-methylcarbamate)

Marine pollutant: No

IATA

UN-Number: 2811 Class: 6.1 Packing group: I

Proper shipping name: Toxic solid, organic, n.o.s. (2,3-Dihydro-2,2-dimethylbenzofuran-7-yl N-methylcarbamate)

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.