Biphenyl-4,4'-dithiol: sc-252436



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:Biphenyl-4,4'-dithiolProduct Number:sc-252436

Supplier:	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, CA 95060 800.457.3801 or 831.457.3800
Emergency:	ChemWatch Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Toxic by ingestion

GHS Label elements, including precautionary statements

Pictogram



Signal word Warning				
Hazard statement(s)				
H302 Harmful if swallowed.				
H413 May cause long lasting harmful effects to aquatic	ife.			
Precautionary statement(s)				
none				
HMIS Classification				
Health hazard: 2				
Flammability: 0				
Physical hazards: 0				
NFPA Rating				
Health hazard: 2				
Fire: 0				
Reactivity Hazard: 0				
Potential Health Effects				
Inhalation: May be harmful if inhaled. May cause respiratory	tract irritation.			
Skin: May be harmful if absorbed through skin. May ca	use skin irritation.			
Eyes: May cause eye irritation.				
Ingestion: Toxic if swallowed.				

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Formula: Molecular Weight:	4,4'-Dimercaptobiphenyl; BPDT C12H10S2 218.34				
CAS-No.		EC-No.	Index-No.	Concentration	
[1,1'-Biphenyl]-4,4'-dithiol					
6954-27-4		230-136-8	-	-	

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -20 °C. Air sensitive. Handle and store under inert gas. Stench.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Boiling point Ignition temperature Upper explosion limit Partition coefficient: n-octanol/water solid no data available no data available no data available log Pow: 4.123 pH Flash point Lower explosion limit Water solubility Melting point no data available no data available no data available no data available 165 - 174 °C (329 - 345 °F)

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Conditions to avoid no data available Materials to avoid Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions - Carbon oxides, sulphur oxides

11. TOXICOLOGICAL INFORMATION

	Acute toxicit			
	no data available			
	Skin corrosion/irritation			
	no data avail	lable		
	Serious eye	damage/eye irritation		
	no data avail	lable		
	Respiratory or skin sensitization			
	no data available			
Germ cell mutagenicity				
no data available				
	Carcinogeni			
	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.		
	ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.		
	NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
	OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.		
	Reproductiv	e toxicity		
no data available				
Specific target organ toxicity - single exposure (Globally Harmonized System)				
no data available				
	Specific targ	jet organ toxicity - repeated exposure (Globally Harmonized System)		
no data available				
	Aspiration h	azard		
no data available				
Potential health effects				
	Inhala	ation: May be harmful if inhaled. May cause respiratory tract irritation.		
	Skin:	May be harmful if absorbed through skin. May cause skin irritation.		
	Eyes:	May cause eye irritation.		
	Ingest	tion: Toxic if swallowed.		

Signs and Symptoms of Exposure

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

no data available

12. ECOLOGICAL INFORMATION

ToxicityPersistence and degradabilityno data availableno data availableBioaccumulative potentialMobility in soilno data availableno data availablePBT and vPvB assessmentno data availableno data availableChter adverse effectsAn environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

CAS-No.: 6954-27-4

15. REGULATORY INFORMATION

OSHA Hazards

Toxic by ingestion
DSL Status
This product contains the following components that are not on the Canadian DSL nor NDSL lists.
[1,1'-Biphenyl]-4,4'-dithiol
CAS-No.: 6954-27-4

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

 SARA 311/312 Hazards

 Acute Health Hazard

 Massachusetts Right To Know Components

 No components are subject to the Massachusetts Right to Know Act.

 Pennsylvania Right To Know Components

 [1,1'-Biphenyl]-4,4'-dithiol

 CAS-No.: 6954-27-4

 New Jersey Right To Know Components

[1,1'-Biphenyl]-4,4'-dithiol

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

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.

6/27/2012