

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc. Revision date 08-Jun-2017 Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Product Code 4,5-Dihydro-3(2H)-thiophenone SC-233065

Recommended use of the chemical and restrictions on use For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet

Santa Cruz Biotechnology, Inc. 10410 Finnell Street Dallas, TX 75220 831.457.3800 800.457.3801 scbt@scbt.com Emergency telephone number Chemtrec 1.800.424.9300 (Within USA) +1.703.527.3887 (Outside USA)

2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Flammable liquids

Label elements Signal word Hazard statements

Symbols/Pictograms

Precautionary Statements - Prevention

Category 2 Category 2A Category 3 Category 4

Warning Causes skin irritation Causes serious eye irritation May cause respiratory irritation Combustible liquid



Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep cool

Precautionary Statements - Response	IF exposed or concerned: Get medical advice/attention
	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
	rinsing
	If eye irritation persists: Get medical advice/attention
	IF ON SKIN: Wash with plenty of soap and water
	If skin irritation occurs: Get medical advice/attention
	Take off contaminated clothing and wash before reuse
	IF INHALED: Remove victim to fresh air and keep at rest in a
	position comfortable for breathing
	Call a POISON CENTER or doctor/physician if you feel unwell
	In case of fire: Use CO2, dry chemical, or foam for extinction
Precautionary Statements - Storage	Store in a well-ventilated place. Keep container tightly closed
	Store locked up
Precautionary Statements - Disposal	Dispose of contents/container to an approved waste disposal
	plant
	1

Hazards not otherwise classified (HNOC) Hazards not otherwise classified (HNOC)

Physical and chemical

properties

Other Information

NFPA

Unknown acute toxicity

Health hazards	2	A HMIS	S Health hazards	2
Flammability	2		Flammability	2
Stability	0		Physical hazards	0

100% of the mixture consists of ingredient(s) of unknown toxicity.

Personal protection

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No	1003-04-9
Molecular Weight	102.15
Formula	C4H6OS

Chemical Name	CAS No	Weight %	Oral LD50	Dermal LD50	Inhalation LC50
4,5-Dihydro-3(2H)-thiopheno	1003-04-9	>98	-	-	-
ne					

4. FIRST AID MEASURES

First Aid Measures General advice Eye contact Skin Contact Inhalation	Consult a physician if necessary. Remove to fresh air. Wash with plenty of water. Wash skin with soap and water. Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Never give anything by mouth to an unconscious person. Clean mouth with water.
Most important symptoms and Symptoms	

Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically.



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable Extinguishing Media	None.	
Specific hazards arising from the chemical		
Specific hazards arising from the chemical	No information available.	
Hazardous combustion products	Hydrogen sulfide. Carbon oxides.	
Explosion data		
Sensitivity to Mechanical Impact	No information available.	
Sensitivity to Static Discharge	No information available.	
Protective equipment and pre	cautions for firefighters	
Protective equipment and precautio	ns As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH	

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	e equipment and emergency procedures
Personal precautions	Ensure adequate ventilation, especially in confined areas.
Environmental precautions Environmental precautions	See Section 12 for additional Ecological Information.
Methods and material for contai	nment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, inc	luding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room
	temperature.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls



Engineering Controls	Showers Eyewash stations Ventilation systems
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear protective gloves and protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved
	respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

P	rmation available rmation available
Boiling point175 °CFlash point78 °CDensity1.194 gEvaporation rateNo infoUpper flammability limitsNo infoLower flammability limitNo infoVapor pressureNo infoVapor density3.53Specific gravityNo infoWater solubilityNo infoSolubility in other solventsNo infoPartition coefficientNo infoAutoignition temperatureNo infoDecomposition temperatureNo infoKinematic viscosityNo infoExplosive propertiesNo info	CC (closed cup)

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of Hazardous Reactions Hazardous polymerization Conditions to avoid Incompatible materials Hazardous Decomposition Products Not applicable Stable under recommended storage conditions. None under normal processing. No information available. Extremes of temperature and direct sunlight. Strong oxidizing agents. Hydrogen sulfide. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Eye contact No data available. No data available.



Skin Contact Ingestion	No data available. No data available.
Information on toxicological ef	
Symptoms	No information available.
Delayed and immediate effects Chronic Toxicity	as well as chronic effects from short and long-term exposure No information available.
Numerical measures of toxicity Unknown acute toxicity	 Product Information 100% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity	May cause long lasting harmful effects to aquatic life
100% of the mixture consists of comp	ponents(s) of unknown hazards to the aquatic environment.
Persistence and degradability Bioaccumulation Mobility	No information available. No information available. No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

14. TRANSPORT INFORMATION

DOT UN/ID no Hazard Class Packing Group Proper shipping name Description Emergency Response Guide Number	UN3334 9 III Aviation regulated liquid, n.o.s. UN3334, Aviation regulated liquid, n.o.s., 9 171
IMDG UN/ID no Hazard Class Proper shipping name Description Special Provisions	UN3334 9 Aviation regulated liquid, n.o.s. UN3334, Aviation regulated liquid, n.o.s., 9 960
IATA UN/ID no Hazard Class Packing Group Proper shipping name Description	UN3334 9 III Aviation regulated liquid, n.o.s. UN3334, Aviation regulated liquid, n.o.s., 9, III



15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) China (IECSC) Philippines (PICCS)

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
4,5-Dihydro-3(2H)-thiopheno	Х	Х	-	Х	-	-	Х	-	Х	Х
ne										

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

16. OTHER INFORMATION

Revision note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet