

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc. Revision date 10-Feb-2022 Version 1.2

The Power to Question

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

Product identifier

Product Name trans,trans-2,4-Hexadienal Product Code SC-251285

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

Acute toxicity - Oral
Acute toxicity - Dermal
Skin corrosion/irritation
Serious eye damage/eye irritation
Skin sensitization
Carcinogenicity
Flammable liquids***

Label elements

Signal word Hazard statements

Symbols/Pictograms

Precautionary Statements - Prevention Precautionary Statements - Response

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC)

Other Information

Category 3***
Category 3***

Category 1*** Sub-category B***
Category 1***

Category 1***
Category 1***
Category 2***
Category 4***

Danger***

Toxic in contact with skin Toxic if swallowed

Causes severe skin burns and eye damage May cause an allergic skin reaction

Suspected of causing cancer***

Combustible liquid***



Wash hands thoroughly after handling

IF exposed or concerned: Get medical advice/attention

Not applicable



3

0

NFPA Health hazards

Flammability Stability

Physical and chemical

properties



HMIS

Health hazards
Flammability
Physical hazards
Personal protection

3 2*** 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No 142-83-6 Molecular Weight 96.13 Formula C_6H_8O

Chemical name	CAS No.	Weight-%	Oral LD50	Dermal LD50	Inhalation LC50	
trans,trans-2,4-Hexadienal	142-83-6	>98	= 300 mg/kg (Rat)	= 270 μL/kg (Rabbit)***	-	

4. FIRST AID MEASURES

First Aid Measures

General advice Immediate medical attention is required.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician

immediately.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

Inhalation Immediate medical attention is required Remove to fresh air If not breathing, give artificial

respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person. Drink plenty of water.

Self-protection of the first aider Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific hazards arising from the chemical

Specific hazards arising from the No information available.

chemical

Hazardous combustion products Carbon oxides.***

Explosion data

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge

No information available.
No information available.

Protective equipment and precautions for firefighters



6. ACCIDENTAL RELEASE MEASURES

for firefighters

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

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Keep people away from and upwind of

spill/leak.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for additional Ecological Information.***

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover Methods for cleaning up

powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into

suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Store at 4 °C.

None known based on information supplied. Incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Guidelines**

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

Eve/face protection Tight sealing safety 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.

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and General Hygiene Considerations

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid

Appearance No information available Odor No information available

<u>Property</u> <u>Values</u>

pH No information available Melting point/freezing point No information available

Boiling point 69 °C***

Flash point 67.77 °C*** CC (closed cup) ***

Liquid Density 0.87 g/mL

Evaporation rate
Upper flammability limits
Lower flammability limit
Vapor pressure

No information available
No information available
No information available

Vapor density 3.32 ***

Specific gravity No information available Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available Decomposition temperature No information available Kinematic viscosity No information available Explosive properties No information available Oxidizing properties No information available

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing. Hazardous polymerization No information available.

Conditions to avoid Extremes of temperature and direct sunlight.

Incompatible materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides.***

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation No data available.
Eye contact No data available.
Skin Contact No data available.
Ingestion No data available.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a

carcinogen.***



Chemical name	ACGIH	IARC	NTP	OSHA
trans,trans-2,4-Hexadienal	=	Group 2B***	-	X***
142-83-6		·		

IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans** OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present***

Numerical measures of toxicity - Product Information

Unknown acute toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document ***

100*** mg/kg*** ATEmix (oral) 300*** mg/kg*** ATEmix (dermal)

12. ECOLOGICAL INFORMATION

May cause long lasting harmful effects to aquatic life **Ecotoxicity**

Persistence and degradability

No information available. Bioaccumulation No information available. Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Do not reuse container. Contaminated packaging

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

US EPA Waste Number D002***

14. TRANSPORT INFORMATION

DOT

UN2922*** UN/ID no 8*** **Hazard Class** 6.1*** Subsidiary class |||*** Packing Group

Proper shipping name Corrosive liquids, toxic, n.o.s.***

UN2922, Corrosive liquids, toxic, n.o.s., 8 (6.1), III*** Description

Emergency Response Guide Number 154***

*** **IMDG**

UN2922*** UN/ID no **Hazard Class** 8*** 6.1*** Subsidiary hazard class 111*** Packing Group

Proper shipping name Corrosive liquid, toxic, n.o.s.***

Description UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), III***

Special Provisions 223. 274*** F-A, S-B*** EmS-No

IATA



UN/ID no
Hazard Class
Subsidiary hazard class
Packing Group
UN2922***
8***
6.1***
III***

Proper shipping name Corrosive liquid, toxic, n.o.s.***

Description UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), III***

ERG Code 8P***

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
trans,trans-2,4-Hexadienal	X***	X***	-	X***	-	-	X***	-	X***	X***

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
Chronic Health Hazard
Fire hazard
Sudden release of pressure hazard
Reactive hazard

Yes***

No
Yes***
No
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

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