

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc. Revision date 01-Dec-2016 Version 1.1

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

Product identifier

Product Name Product Code Pentyl isovalerate SC-215692

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 Acute toxicity - Inhalation (Dusts/Mists) Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Flammable liquids

Label elements

Signal word Hazard statements

Symbols/Pictograms

- Category 4 Category 4 Category 4 Category 2 Category 2A Category 3 Category 4
- Warning Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause respiratory irritation Combustible liquid





Precautionary Statements - Prevention	Wash face, hands and any exposed skin thoroughly after handling
	Do not eat, drink or smoke when using this product
	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
	Call a POISON CENTER or doctor/physician if you feel unwell
	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
	IF SWALLOWED: Call a POISON CENTER or doctor/physician if
	you feel unwell
	Rinse mouth
	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

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC)

Other Information

NFPA	Health hazards Flammability Stability Physical and chemical properties	0 2 0 -		HMIS	Health hazards Flammability Physical hazards Personal protection	0 2 0 -
	properties		\checkmark			

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

25415-62-7

>98

CAS No Molecular Weight Formula		25415-62-7 172.26 C10H20O2				
Chemical Name	CAS No	Weight %	Oral LD50	Dermal LD50	Inhalation LC50	

-

-

4. FIRST AID MEASURES

First Aid Measures

Pentyl isovalerate

General advice Eye contact Skin Contact

Consult a physician if necessary. Remove to fresh air. Wash with plenty of water. Wash skin with soap and water.

-



Inhalation	Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration	
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water.	
Most important symptom Symptoms	ns and effects, both acute and delayed No information available.	
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 Specific hazards arising from the chemical	the chemical No information available.

Explosion data

Sensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	No information available.

Protective equipment and precautions 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.

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 Storage Conditions	Iuding any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room
Incompatible materials	temperature. 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 contro	ls
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

Physical State Appearance Odor

Property

pH Melting point/freezing point Boiling point Flash point Density Evaporation rate Upper flammability limits Lower flammability limit Vapor pressure Vapor density Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Explosive properties Oxidizing properties

liquid No information available No information available

Values

No information available No information available 78 °C 69 °C 0.858 g/cm3 No information available No information available

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of Hazardous Reactions Hazardous polymerization Conditions to avoid Not applicable Stable under recommended storage conditions. None under normal processing. No information available. Extremes of temperature and direct sunlight.



Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposureInhalationNo data available.Eye contactNo data available.Skin ContactNo data available.IngestionNo 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.

Numerical measures of toxicity - Product Information

Unknown acute toxicityNo information availableThe following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)500 mg/kgATEmix (dermal)1100 mg/kgATEmix (inhalation-dust/mist)1.5 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity May cause long lasting harmful effects to aquatic life

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

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
Contaminated packaging	regulations. Do not reuse container.

14. TRANSPORT INFORMATION

DOT	Not regulated
IMDG	Not regulated
ΙΑΤΑ	Not regulated

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) South Korea (KECL): China (IECSC) ENCS (Japan): Philippines (PICCS)

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Pentyl isovalerate	Х	Х	-	Х	-	Х	Х	Х	Х	Х

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