



The Power to Question

# SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.

Revision date 08-Jun-2018

Version 2

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

### Product identifier

Product Name 2-Octadecanone  
Product Code SC-230609

### 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 Category 2  
Aspiration toxicity Category 1  
Flammable liquids Category 2

### Label elements

Signal word Danger  
Hazard statements Causes skin irritation  
May be fatal if swallowed and enters airways  
Highly flammable liquid and vapor

Symbols/Pictograms



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge



## Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
 If skin irritation occurs: Get medical advice/attention  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

## Precautionary Statements - Storage

## Precautionary Statements - Disposal

Do NOT induce vomiting  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction  
 Store locked up Store in a well-ventilated place. Keep cool  
 Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Hazards not otherwise classified (HNOC)

Not applicable

**Other Information**

Other hazards

Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

**NFPA**

Health hazards	0
Flammability	3
Stability	0
Physical and chemical properties	-

**HMIS**

Health hazards	0
Flammability	3
Physical hazards	0
Personal protection	-

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS No	7373-13-9
Molecular Weight	268.48
Formula	C <sub>18</sub> H <sub>36</sub> O

Chemical name	CAS No.	Weight-%	Oral LD50	Dermal LD50	Inhalation LC50
isooctane	540-84-1	>98	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 14.38 mg/L ( Rat ) 4 h
2-Octadecanone	7373-13-9	<0.01	-	-	-

**4. FIRST AID MEASURES****First Aid Measures**

General advice

If symptoms persist, call a physician.

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. If symptoms persist, call a physician.

Skin Contact

Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation

Immediate medical attention is not required Move to fresh air in case of accidental inhalation of vapors If symptoms persist, call a physician

Ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.

Self-protection of the first aider

Use personal protective equipment as required.

**Most important symptoms and effects, both acute and delayed**

Symptoms

No information available.

**Indication of any immediate medical attention and special treatment needed**



Note to physicians                      Treat symptomatically.

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## 5. FIRE-FIGHTING MEASURES

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### Suitable Extinguishing Media

Suitable Extinguishing Media            Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media        No information available.

### Specific hazards arising from the chemical

Specific hazards arising from the chemical    No information available.

Hazardous combustion products        Carbon oxides.

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

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## 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions, protective equipment and emergency procedures

Personal precautions                    Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### Environmental precautions

Environmental precautions            See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### Methods and material for containment and cleaning up

Methods for containment                Prevent further leakage or spillage if safe to do so.

Methods for cleaning up                Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers.

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## 7. HANDLING AND STORAGE

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### Precautions for safe handling

Advice on safe handling                Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

Storage Conditions                    Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Store at room temperature.

Incompatible materials                None known based on information supplied.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
isooctane 540-84-1	TWA: 300 ppm	-	-

### Appropriate engineering controls

Engineering Controls  
 Showers  
 Eyewash stations  
 Ventilation systems

### Individual protection measures, such as personal protective equipment

Eye/face protection  
 Skin and Body Protection  
 Respiratory protection  
 General Hygiene Considerations

Tight sealing safety goggles. Face protection shield.  
 Wear protective gloves and protective clothing.  
 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 clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State  
 Appearance  
 Odor

liquid  
 No information available  
 No information available

<u>Property</u>	<u>Values</u>
pH	No information available
Melting point/freezing point	50 °C
Boiling point	145 °C
Flash point	12 °C CC (closed cup)
Liquid Density	No information available
Evaporation rate	No information available
Upper flammability limits	No information available
Lower flammability limit	No information available
Vapor pressure	No information available
Vapor density	No information available
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  
 Chemical stability  
 Possibility of Hazardous Reactions  
 Hazardous polymerization

Not applicable  
 Stable under recommended storage conditions.  
 None under normal processing.  
 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 Avoid repeated exposure.

### 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  
 ATEmix (oral) 5005 mg/kg  
 ATEmix (dermal) 2002 mg/kg  
 ATEmix (inhalation-dust/mist) 14.4 mg/l

## 12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life with long lasting effects

0.001% 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 regulations.  
 Contaminated packaging Do not reuse container.  
 California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
isooctane 540-84-1	Toxic Ignitable

## 14. TRANSPORT INFORMATION

DOT



UN/ID no UN1262  
 Hazard Class 3  
 Packing Group II  
 Proper shipping name Octanes  
 Reportable Quantity (RQ) (isooctane: RQ (kg)= 454.00)  
 Description UN1262, Octanes, 3, II, Marine pollutant  
 Marine pollutant This product contains a chemical which is listed as a marine pollutant according to DOT  
 Emergency Response Guide Number 128

**IMDG**

UN/ID no UN1262  
 Hazard Class 3  
 Packing Group II  
 Proper shipping name Octanes  
 Description UN1262, Octanes, 3, II, (12°C c.c.), Marine pollutant  
 EmS-No F-E, S-E  
 Marine pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

**IATA**

UN/ID no UN1262  
 Hazard Class 3  
 Packing Group II  
 Proper shipping name Octanes  
 Description UN1262, Octanes, 3, II  
 ERG Code 3H

**15. REGULATORY INFORMATION****International Inventories**

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

South Korea (KECL): ENCS (Japan):

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
isooctane	X	X	-	X	-	X	X	X	X	X
2-Octadecanone	-	-	-	-	-	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 Yes  
 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

Chemical name	New Jersey	Massachusetts	Pennsylvania
isooctane 540-84-1	X	X	X

## 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**