



The Power to Question

# SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.

Revision date 27-Jan-2025

Version 1.1

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

### Product identifier

Product Name Isobutyl acetate  
Product Code SC-228365  
CAS No 110-19-0

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

Category 4  
Category 2B  
Category 3  
Category 2

### Label elements

Signal word  
Hazard statements

Danger  
Harmful if inhaled  
Causes eye irritation  
May cause respiratory irritation. May cause drowsiness or dizziness

Highly flammable liquid and vapor  
Symbols/Pictograms



Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wash face, hands and any exposed skin thoroughly after handling  
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  
Wear protective gloves/protective clothing/eye protection/face



Precautionary Statements - Response	protection Keep cool 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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower 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 Store in a well-ventilated place. Keep container tightly closed Store locked up
Precautionary Statements - Storage	Dispose of contents/container to an approved waste disposal plant
Precautionary Statements - Disposal	

**Hazards not otherwise classified (HNOC)**

Hazards not otherwise classified (HNOC) Not applicable

**Other Information**

Other hazards Harmful to aquatic life.

<b>NFPA</b>	Health hazards	2		<b>HMIS</b>	Health hazards	2	
	Flammability	3				Flammability	3
	Stability	0				Physical hazards	0
	Physical and chemical properties	-				Personal protection	-

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS No 110-19-0  
 Molecular Weight 116.16  
 Formula C<sub>6</sub>H<sub>12</sub>O<sub>2</sub>

Chemical name	CAS No.	Weight-%	Oral LD50	Dermal LD50	Inhalation LC50
Isobutyl acetate	-	>98	-	-	-

Concentration Density ~1.43g/cm<sup>3</sup>

**4. FIRST AID MEASURES**

**First Aid Measures**

General advice	Consult a physician if necessary. Remove to fresh air.
Eye contact	Wash with plenty of water.
Skin Contact	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 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.



## 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 flammable.

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.

## 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Use personal protective equipment as required.

### Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system.

### 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 Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

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### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Store at room temperature.

Incompatible materials None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Control parameters

Exposure Guidelines .

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).



Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isobutyl acetate 110-19-0	STEL: 150 ppm TWA: 50 ppm	TWA: 150 ppm TWA: 700 mg/m <sup>3</sup> (vacated) TWA: 150 ppm (vacated) TWA: 700 mg/m <sup>3</sup>	IDLH: 1300 ppm TWA: 150 ppm TWA: 700 mg/m <sup>3</sup>

NIOSH IDLH *Immediately Dangerous to Life or Health*

### 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

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	-99 °C
Boiling point	115 °C
Flash point	21 °C
Liquid Density	0.87 g/mL
Evaporation rate	No information available
Upper flammability limits	10.5%
Lower flammability limit	1.3%
Vapor pressure	15 mmHg
Vapor density	4
Specific gravity	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	421 °C
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.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity	No information available.
Target Organ Effects	Central nervous system, Eyes, Respiratory system, Skin.

### 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)	15400 mg/kg
ATEmix (dermal)	17417 mg/kg
ATEmix (inhalation-dust/mist)	1.5 mg/l

## 12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Isobutyl acetate 110-19-0	-	101 - 123: 48 h Leuciscus idus melanotus mg/L LC50 flow-through 101: 48 h Leuciscus idus melanotus mg/L LC50 static	-	168: 24 h Daphnia magna mg/L EC50

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.

Chemical name	Partition coefficient
Isobutyl acetate 110-19-0	1.72

## 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.
US EPA Waste Number	D001

## 14. TRANSPORT INFORMATION

**DOT**

UN/ID no UN1213  
 Hazard Class 3  
 Packing Group II  
 Isobutyl acetate  
 Reportable Quantity (RQ) (Isobutyl acetate: RQ (kg)= 2270.00)  
 UN1213, Isobutyl acetate, 3, II  
 Emergency Response Guide Number 129P

**IMDG**

UN/ID no UN1213  
 Hazard Class 3  
 Packing Group II  
 Isobutyl acetate  
 UN1213, Isobutyl acetate, 3, II, (21°C c.c.)  
 EmS-No F-E, S-D

**IATA**

UN/ID no UN1213  
 Hazard Class 3  
 Packing Group II  
 Isobutyl acetate  
 UN1213, Isobutyl acetate, 3, II  
 ERG Code 3L

**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
Isobutyl acetate	X	X	-	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 Yes  
 Chronic Health Hazard No  
 Fire hazard Yes  
 Sudden release of pressure hazard No  
 Reactive hazard No

**CWA (Clean Water Act)**



This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isobutyl acetate 110-19-0				X

### 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
Isobutyl acetate 110-19-0	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**