



The Power to Question

# SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.

Revision date 03-May-2023

Version 1.1

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

### Product identifier

Product Name 2,2-Difluoroethyl acetate  
Product Code SC-298546

### 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  
Flammable liquids

Category 2  
Category 2A  
Category 2

### Label elements

Signal word  
Hazard statements

Danger  
Causes skin irritation  
Causes serious eye irritation  
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 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 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  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction  
 Store in a well-ventilated place. Keep cool  
 Dispose of contents/container to an approved waste disposal plant

Precautionary Statements - Storage  
 Precautionary Statements - Disposal

**Hazards not otherwise classified (HNOC)**

Hazards not otherwise classified (HNOC)

Not applicable

**Other Information**

Unknown acute toxicity

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

**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           | 1550-44-3   |
| Molecular Weight | 124.09  |
| Formula          | C <sub>4</sub> H <sub>6</sub> F <sub>2</sub> O <sub>2</sub> |

| Chemical name             | CAS No.   | Weight-% | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------------|-----------|----------|-----------|-------------|-----------------|
| 2,2-Difluoroethyl acetate | 1550-44-3 | >98      | -         | -           | -               |

**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****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. Hydrogen fluoride. |

### 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

### 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

### 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

### 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<br>Eyewash stations<br>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 | No information available |
| Boiling point                | 106 °C                   |
| Flash point                  | -2 °C                    |
| Liquid Density               | 1.21 g/mL                |
| Evaporation rate             | No information available |
| Upper flammability limits    | No information available |
| Lower flammability limit     | No information available |
| Vapor pressure               | 322.31 mmHg              |
| Vapor density                | No information available |
| Specific gravity             | 1.21                     |
| 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. Hydrogen fluoride.            |

## 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.

### Numerical measures of toxicity - Product Information

Unknown acute toxicity 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 component(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.

US EPA Waste Number D001

## 14. TRANSPORT INFORMATION

### DOT

UN/ID no UN3272  
 Hazard Class 3  
 Packing Group II  
 Proper shipping name Esters, n.o.s.  
 Description UN3272, Esters, n.o.s., 3, II  
 Emergency Response Guide Number 127

### IMDG

UN/ID no UN3272  
 Hazard Class 3  
 Packing Group II  
 Proper shipping name Esters, n.o.s.  
 Description UN3272, Esters, n.o.s., 3, II, (-2°C c.c.)  
 Special Provisions 274  
 EmS-No F-E, S-D

### IATA

UN/ID no UN3272  
 Hazard Class 3  
 Packing Group II  
 Proper shipping name Esters, n.o.s.  
 Description UN3272, Esters, n.o.s., 3, II  
 ERG Code 3L



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## 15. REGULATORY INFORMATION

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### International Inventories

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

No information available

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

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## 16. OTHER INFORMATION

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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**