

The Power to Question

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc. Revision date 26-Jul-2021 Version 2.4

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

Product identifier

Product Name a-Humulene
Product Code SC-233773

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

Precautionary Statements - Prevention

Precautionary Statements - Response

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

Serious eye damage/eye irritation Category 2A Specific target organ toxicity (single exposure) Category 3 Flammable liquids Category 4

Label elements

Signal word
Hazard statements

May cause respiratory irritation Combustible liquid

Symbols/Pictograms

Wash face, hands and any exposed skin thoroughly after

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

Warning

Causes serious eye irritation

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 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

Precautionary Statements - Storage

Santa Cruz Biotechnology, Inc. www.scbt.com



Precautionary Statements - Disposal

Store locked up

Dispose of contents/container to an approved waste disposal

plant

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

Flammability 2 Stability 0 Physical and chemical

properties



2

Health hazards **HMIS** Flammability

Physical hazards Personal protection

2

2

0

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No 6753-98-6 Molecular Weight 204.35 Formula C₁₅H₂₄

Chemical name	emical name CAS No. Weight-9		Oral LD50	Dermal LD50	Inhalation LC50		
α-Humulene	6753-98-6	>98	=	=	-		

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 Immediate medical attention is not required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. If skin irritation persists, call a

physician.

Immediate medical attention is not required If symptoms persist, call a physician Move to Inhalation

fresh air in case of accidental inhalation of vapors or decomposition products

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.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Use. Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam. Unsuitable Extinguishing Media No information available.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

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

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 equipment and emergency procedures

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

personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to

flashback. Take precautionary measures against static discharges.

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 Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled

containers. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use with local exhaust ventilation. All equipment used when handling the product must be

grounded. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use personal protective equipment as required. Do not breathe

dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

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). Keep containers tightly closed in a cool, well-ventilated place.

Keep away from heat. Keep in properly labeled containers. Store at 4 °C.

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



Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/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.

General Hygiene Considerations 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 liauid

Appearance No information available Odor No information available

Property Values

No information available pН Melting point/freezing point No information available

Boiling point 166 °C 90 °C Flash point Liquid Density .89 g/mL

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 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 Heat, flames and sparks. 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.

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 components(s) of unknown hazards to the aquatic environment.

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

14. TRANSPORT INFORMATION

DOT Not regulated

IMDG Not regulated

IATA 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) ENCS (Japan):

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
α-Humulene	X	-	Х	Х	-	X	-	-	-	-

X - Listea

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

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