

The Power to Question

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc. Revision date 17-Apr-2024 Version 246.6

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

Product identifier

Product Name Acetaldehyde dimethyl acetal
Product Code SC-239182

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)

Category 4
Flammable liquids

Category 2

Label elements

Signal word Hazard statements

Symbols/Pictograms





Precautionary Statements - Prevention

Precautionary Statements - Response

Danger

Harmful if inhaled

Highly flammable liquid and vapor

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 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

protection

IF exposed or concerned: 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

Santa Cruz Biotechnology, Inc. www.scbt.com



Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal

plant

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC) Not applicable

Other Information

Health hazards **NFPA**

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 534-15-6 Molecular Weight 90.12 Formula C₄H₁₀O₂

Chemical name	CAS No.	Weight-%	Oral LD50	Dermal LD50	Inhalation LC50
Acetaldehyde dimethyl	534-15-6	>98	= 6500 mg/kg (Rat)	= 20 g/kg (Rat) = 20 g/kg (= 3000 ppm (Rat) 4 h
acetal				Rabbit)	

4. FIRST AID MEASURES

First Aid Measures

General advice Immediate medical attention is required. In case of accident or unwellness, seek medical

advice immediately (show directions for use or safety data sheet if possible).

Eye contact Wash with plenty of water.

Skin Contact Wash off immediately with plenty of 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.

Self-protection of the first aider Remove all sources of ignition.

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

Unsuitable Extinguishing Media

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

surrounding environment. No information available.

Specific hazards arising from the chemical

Specific hazards arising from the Extremely flammable.

chemical

Hazardous combustion products Carbon oxides.



Explosion data

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

Protective equipment and precautions for firefighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

for firefighters (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. Evacuate personnel to safe areas. Ensure adequate

ventilation, especially in confined areas. Use personal protective equipment as required.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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 Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert

absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks,

flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be

grounded.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away

from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and

static electricity). 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 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 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 liquid

Appearance No information available

Odor sweet

<u>Property</u> <u>Values</u>

pH No information available

Melting point/freezing point -113 °C Boiling point 64 °C

Flash point -17 °C CC (closed cup)

Liquid Density 0.85 g/mL

Evaporation rate
Upper flammability limits
Lower flammability limit
No information available
No information available
No information available

Vapor pressure 182.7 mmHg

Vapor density 3.1 Specific gravity 0.85

Water solubility

No information available
Solubility in other solvents

No information available

Partition coefficient 0.63 Autoignition temperature 247 °C

Decomposition temperature
Kinematic viscosity
Explosive properties
Oxidizing properties
No information available
No information available
No information available
No information available

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Hazardous polymerization
None under normal processing.
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 No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 6500 mg/kg
ATEmix (dermal) 20000 mg/kg
ATEmix (inhalation-dust/mist) 1.5 mg/l
ATEmix (inhalation-vapor) 3000 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
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.

US EPA Waste Number D001

14. TRANSPORT INFORMATION

DOT

UN/ID no UN2377
Hazard Class 3
Packing Group II

1,1-Dimethoxyethane

UN2377, 1,1-Dimethoxyethane, 3, II

Emergency Response Guide Number 127

IMDG

UN/ID no UN2377
Hazard Class 3
Packing Group II

1,1-Dimethoxyethane

UN2377, 1,1-Dimethoxyethane, 3, II, (-17°C c.c.)

EmS-No F-E, S-D

IATA



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UN/ID no UN2377 Hazard Class 3 Packing Group II

1,1-Dimethoxyethane

UN2377, 1,1-Dimethoxyethane, 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
Acetaldehyde dimethyl	Х	Х	-	X	-	Х	Х	Х	Х	Х
acetal										

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
Acetaldehyde dimethyl acetal	X	Not Listed	Not Listed
534-15-6			

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