



The Power to Question

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.

Revision date 14-Jul-2021

Version 2

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

Product identifier

Product Name 5-Chloro-2-methyl-4-isothiazolin-3-one (CMI/MI > 2.0)
Product Code SC-352647

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 1 Sub-category B
Respiratory sensitization Category 1
Skin sensitization Category 1

Label elements

Signal word Danger
Hazard statements Causes severe skin burns and eye damage
May cause an allergic skin reaction
May cause allergy or asthma symptoms or breathing difficulties if inhaled
Harmful to aquatic life with long lasting effects

Symbols/Pictograms



Precautionary Statements - Prevention
Precautionary Statements - Response

Wash hands thoroughly after handling
IF exposed or concerned: Get medical advice/attention

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC) Not applicable

Other Information

| | | | | | | |
|-------------|----------------------------------|---|--|-------------|---------------------|---|
| NFPA | Health hazards | 3 | | HMIS | Health hazards | 3 |
| | Flammability | 0 | | | Flammability | 0 |
| | Stability | 0 | | | Physical hazards | 1 |
| | Physical and chemical properties | - | | | Personal protection | - |



3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No 26172-55-4
 Molecular Weight 149.60
 Formula C₄H₄CINOS

| Chemical name | CAS No. | Weight-% | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|------------|----------|---------------------|-------------|-------------------------|
| Water | 7732-18-5 | 70 - 90 | > 90 mL/kg (Rat) | - | - |
| 5-Chloro-2-methyl-4-isothiazolin-3-one (CMI) | 26172-55-4 | 10 - 30 | = 481 mg/kg (Rat) | - | = 1.23 mg/L (Rat) 4 h |

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 Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

Hazardous combustion products Hydrogen sulfide. Carbon oxides. Nitrogen oxides (NO_x). Phosgene.

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 Ensure adequate ventilation, especially in confined areas.

Environmental precautions



Environmental precautions See Section 12 for additional Ecological Information.

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 Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. 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
 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

Property

Values

pH No information available
 Melting point/freezing point No information available
 Boiling point 100 °C
 Flash point No information available
 Liquid Density 1.25 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 | Extremes of temperature and direct sunlight. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous Decomposition Products | Hydrogen sulfide. Carbon oxides. Nitrogen oxides (NOx). Phosgene. |

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) | 3207 mg/kg |
| ATEmix (inhalation-vapor) | 8.2 mg/l |

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life with long lasting effects

| Chemical name | Algae/aquatic plants | Fish | Toxicity to Microorganisms | Crustacea |
|--|--|---|----------------------------|--|
| 5-Chloro-2-methyl-4-isothiazolin-3-one (CMI) 26172-55-4 | 0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.31: 120 h Anabaena flos-aquae mg/L EC50 | 1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static | - | 0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static 4.71: 48 h Daphnia magna mg/L EC50 0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through |

| | |
|-------------------------------|---------------------------|
| Persistence and degradability | No information available. |
|-------------------------------|---------------------------|



Bioaccumulation No information available.
 Mobility No information available.

| Chemical name | Partition coefficient |
|--|-----------------------|
| 5-Chloro-2-methyl-4-isothiazolin-3-one (CMI) 26172-55-4 | 0.75 |

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 D002

14. TRANSPORT INFORMATION

DOT

UN/ID no UN1760
 Hazard Class 8
 Packing Group II
 Proper shipping name Corrosive liquids, n.o.s.
 Description UN1760, Corrosive liquids, n.o.s., 8, II
 Emergency Response Guide Number 154

IMDG

UN/ID no UN1760
 Hazard Class 8
 Packing Group II
 Proper shipping name Corrosive liquid, n.o.s.
 Description UN1760, Corrosive liquid, n.o.s. (, 5-Chloro-2-methyl-4-isothiazolin-3-one (CMI)), 8, II, Marine pollutant
 Special Provisions 274
 EmS-No F-A, S-B

IATA

UN/ID no UN1760
 Hazard Class 8
 Packing Group II
 Proper shipping name Corrosive liquid, n.o.s.
 Description UN1760, Corrosive liquid, n.o.s., 8, II
 ERG Code 8L

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) Philippines (PICCS)

| Chemical name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|--|------|-----|------|--------|--------|------|-------|------|-------|------|
| Water | X | X | - | X | - | - | X | X | X | X |
| 5-Chloro-2-methyl-4-isothiazolin-3-one (CMI) | X | X | - | X | - | X | X | X | X | X |

X - Listed

