

Mitomycin C: sc-3514



The Power to Question

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Mitomycin C
Product Number: sc-3514
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [GHS/CLP]
Acute Toxicity, oral - Category 2
Classification according to EU Directives DSD 67/548/EEC or DPD 1999/45/EC
Very toxic if swallowed

Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]

Pictogram(s):



Signal word: Danger

Hazard statement(s):
H300 Fatal if swallowed

Precautionary statement(s):
P264 Wash hands thoroughly after handling
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

According to European Directive 67/548/EEC as amended

Hazard symbol(s):



R-phrases(s):
R28 Very toxic if swallowed

S-phrases(s):
S46 If swallowed, seek medical advice immediately and show this container or label

Other hazards none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Ametycine
Formula: C₁₅H₁₈N₄O₅
Molecular weight: 334.33
CAS #: 50-07-7
EC Number: 200-008-6

4. FIRST AID MEASURES

General advice

Consult a doctor and show this safety data sheet.

If inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In case of skin contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

In case of eye contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

Reference to other sections

For required PPE see section 8. For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

Conditions for safe storage, including any incompatibilities.

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Store at -20 ° C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

Personal protective equipment

Eye/face protection

Use appropriate safety glasses.

Skin protection

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body protection

Wear appropriate protective clothing.

Respiratory protection

If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	solid	Odor	No data available
Odor threshold	No data available	pH	No data available
Melting / freezing point	No data available	Boiling point / range	No data available
Flash point	No data available	Evaporation rate	No data available
Flammability (solid, gas)	No data available	Upper / lower explosive limits	No data available
Vapor pressure	No data available	Vapor density	No data available
Relative density	No data available	Partition coefficient	No data available
Auto-ignition temperature	No data available	Decomposition temperature	No data available
Viscosity	No data available	Explosive properties	No data available
Solubility(ies)	Soluble to 5 mM in water and to 100 mM in DMSO	Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

Chemical Reactivity

Stable under recommended transport or storage

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid

Heat, moisture.

Incompatible materials

Strong acids/alkalis, strong oxidizing/reducing agents.

Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

ORL-RAT LD50: 30mg/kg; IVN-WMN TDLo: 1800ug/kg; SCU-RAT LD50: 3250ug/kg; IVN-RAT LD50: 3mg/kg; ORL-MUS LD50: 23mg/kg; IPR-MUS LD50: 4mg/kg; SCU-MUS LD50: 7300ug/kg; IVN-MUS LD50: 4mg/kg.

Skin corrosion/irritation

Classified based on available data

Serious eye damage/irritation

Classified based on available data

Respiratory or skin sensitization

Classified based on available data

Germ cell mutagenicity

Classified based on available data

Carcinogenicity

Classified based on available data

Reproductive toxicity

Classified based on available data

Specific target organ toxicity - single exposure

Classified based on available data

Specific target organ toxicity - repeated exposure

Classified based on available data

Aspiration hazard

Classified based on available data

Symptoms / Routes of exposure

- Inhalation** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Severe poisoning causes severe shortness of breath and shock, with blueness of the lips, tongue, ears, face, hands and feet.
- Ingestion** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. Blood may be vomited. There may be vomiting and diarrhea. There may be loss of consciousness. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting. Severe poisoning can cause shock, unconsciousness and convulsions.
- Skin** Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Absorption through the skin may be fatal.
- Eyes** There may be pain and redness. The vision may become blurred. The eyes may water profusely. Absorption through the eye may cause effects similar to skin and/or ingestion.

Delayed / Immediate Effects

Immediate effects can be expected after short-term exposure.

Additional Information

RTECS No: CN0700000

RTECS Substance categories: Tumorigen; Drug; Mutagen; Reproductive effector; Natural Product. Exposure may cause irritation to eyes, mucous membranes, upper respiratory tract and skin; Exposure may also cause the following: Effect fertility and/or unborn and breastfed infants; Somnolence; Diarrhoea. To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION**Toxicity**

no data available

Bioaccumulative potential

no data available

PBT and vPvB assessment

no data available

Persistence and degradability

no data available

Mobility in soil

no data available

Other adverse effects

May be harmful to the aquatic environment.

13. DISPOSAL CONSIDERATIONS**Product**

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

Contaminated packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

UN-Number

UN2811

UN proper shipping name

Toxic solid, organic, n.o.s. (Mitomycin C)

Transport hazard class(es)

6.1

Packaging group

II

Environmental hazards

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

Special precautions for users

No data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

02/27/2014