

Mitoxantrone: sc-207888



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical and Company Information

Chemical Name Mitoxantrone

Synonyms 1,4-Dihydroxy-5,8-bis[[2-[(2-hydroxyethyl)amino]ethyl]amino]-9,10-anthracenedione;
DHAQ; NSC-279836;

Catalog Nbr sc-207888

Supplier Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

Cas Reg. No 65271-80-9

Emergency ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

Section 2 - Hazardous Ingredients / Identity Information

The toxicological properties have not been thoroughly investigated. Exercise due care!

Target Organs : Bone marrow, Heart, Central nervous system, Liver

NFPA RATING

HEALTH: 0, FLAMMABILITY: 0, REACTIVITY: 0

Section 3 - Physical/Chemical Characteristics

Boiling Point N/A

Vapor Pressure N/A

Vapor Density N/A

Solubility in Water YES

Appearance and Odor

Dark Blue Crystalline Solid

Specific Gravity(H₂O=1)

N/A

Melting Point

170-1740C

Evaporation Rate (Butyl Acetate=1) N/A

Section 4 - Reactive Data

Stability Stable,

Conditions to Avoid Strong oxidizing agents

Hazardous Decomposition or Byproducts Toxic fumes of carbon dioxide, carbon monoxide and nitrogen oxides

Incompatibility (Materials to Avoid)

Strong oxidizing agents

Hazardous Polymerization

will not occur

Section 5 - Control Measures

Respiratory Protection Niosh/Msha approved respirator

Protective Gloves Chemical resistant gloves

Other Protective Clothing Lab coat or apron

Ventilation

Eye Protection

Other Protection

Hood

chemical safety goggles

safety shower and eye bath

Section 6 - First Aid Measures

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin Rinse with copious amounts of water for 15 minutes. Remove contaminated clothing and shoes.

Ingestion Rinse mouth out with water, provided the person is conscious. Seek medical attention.

Eyes Flush eyes with copious amounts of water, separating eyelids with fingers.

Section 7 - Health Hazard Data

Health Hazards
(Acute and Chronic)

Acute toxicity
LD50 Intraperitoneal - mouse - 7.1 mg/kg

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
 Genotoxicity in vitro - Hamster - ovary
 DNA damage
 Genotoxicity in vitro - Hamster - Lungs
 DNA damage
 Genotoxicity in vitro - Human - lymphocyte
 Cytogenetic analysis
 Genotoxicity in vitro - mouse - leukocyte
 Other mutation test systems
 Genotoxicity in vitro - mouse - leukocyte
 DNA inhibition
 Genotoxicity in vitro - mouse - leukocyte
 DNA damage
 Genotoxicity in vitro - Hamster - ovary
 Cytogenetic analysis
 Genotoxicity in vitro - Hamster - ovary
 Sister chromatid exchange
 Genotoxicity in vitro - Hamster - Lungs
 Mutation in mammalian somatic cells.
 Genotoxicity in vitro - mouse - Other cell types
 DNA inhibition
 Genotoxicity in vitro - Human - leukocyte
 DNA inhibition
 Genotoxicity in vivo - mouse - Intraperitoneal
 DNA damage

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

May cause congenital malformation in the fetus.
 Presumed human reproductive toxicant

Specific target organ toxicity - single exposure (GHS)
 no data available

Specific target organ toxicity - repeated exposure (GHS)
 no data available

Aspiration hazard
 no data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
 Ingestion May be harmful if swallowed.
 Skin May be harmful if absorbed through skin. May cause skin irritation.
 Eyes May cause eye irritation.

Additional Information

RTECS: CB5748500

A DNA intercalating drug. Inhibits DNA synthesis. Used as an anti-cancer agent.

Medical Conditions
Generally Aggravated by
Exposure

The toxicological properties have not been thoroughly investigated. Exercise due care!

Section 8 - Precautions for Safe Handling and Use

Steps to be Taken in
Case Material is
Released or Spilled

wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method

Dispose of in accordance with all federal, state and local environmental regulations.

Precautions to Be
Taken in Handling
and Storage

Store in a cool, dry and well ventilated area. Keep all containers securely closed when not in use.

Section 9 - Fire and Explosion Hazard Data

Extinguishing Media

Water; Carbon dioxide; dry powder

Special Fire Fighting
Procedures

Use water spray to cool fire - exposed containers and structures. Use water spray to disperse any vapors; reignition is always a potential. Use self-contained breathing apparatus as described above.

Unusual Fire and
Explosion Hazards

Toxic fumes are emitted under fire conditions consisting of carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur dioxide.

Section 10 - Transportation Information and regulatory information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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.

5/27/2010