N-Desmethyl Tamoxifen Hydrochloride: sc-212193

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: N-Desmethyl Tamoxifen Hydrochloride
Product Number: sc-212193

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 and Label Elements

GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Carcinogenicity (Category 1B)
Reproductive Toxicity (Category 1B)
Hazardous to the Aquatic Environment, Acute Hazard (Category 1)
Hazardous to the Aquatic Environment, Long-Term Hazard (Category 4)

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Pictogram

Signal Word Danger

GHS Hazard Statements

H350	May cause cancer.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H413	May cause long lasting harmful effects to aquatic life.

GHS Precautionary Statements

P201	Obtain special instructions before use.
P281	Use personal protective equipment as required
P308/P313	IF exposed or concerned: Get medical advice/attention.
P273	Avoid release to the environment.
P391	Collect spillage.

EU Classification (According to EU Regulation 67/548/EEC)

Possible risk of harm to the unborn child. May cause cancer.

EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements

Toxic/Harmful

Hazard Codes T/Xn

Risk Codes and Phrases

R63	Possible risk of harm to the unborn child.
R45	May cause cancer.

Safety Precaution Codes and Phrases

S53	Avoid exposure - obtain special instruction before use.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

WHMIS Classification (Canada)

D2A	Very Toxic Material Causing Other Toxic Effects Reproductive Toxic/Teratogen/Carcinogen

WHMIS Symbols

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: (Z)-2-[4-(1,2-Diphenyl-1-butenyl)phenoxy]-N-methylethanamine Hydrochloride; N-Demethyltamoxifen Hydrochloride
Formula: C25H27NO•HCl
Molecular Weight: 393.95
CAS Number: 15917-65-4

4. FIRST AID MEASURES

General Advice
If medical attention is required, show this safety data sheet to the doctor.
If Inhaled
If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.
In Case of Skin Contact
Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.
In Case of Eye Contact
Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.
If Swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.
Most Important Symptoms and Effects, Both Acute and Delayed
No data available
Indication of any Immediate Medical Attention and Special Treatment Needed
No data available

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards Arising from the Substance or Mixture
Carbon oxides
Advice for Firefighters
Wear self contained breathing apparatus for fire fighting if necessary.
Further Information
no data available

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists. Adequate ventilation must be provided to ensure dusts or mists are not inhaled.
Environmental Precautions
Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

Methods and Materials for Containment and Cleaning Up
Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).
Reference to Other Sections
For protective equipment, refer to Section 8. For disposal, see Section 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of dusts and mists. Normal measures for preventative fire protection. No smoking, eating or drinking around this material. Wash hands after use.
Conditions for Safe Storage, Including any Incompatibilities
Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10). Desiccate at -20 ºC under inert atmosphere. Hygroscopic/moisture sensitive. Light sensitive.
Specific End Uses
For scientific research and development only. Not for use in humans or animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
Contains no components with established occupational exposure limits.
Exposure Controls
Appropriate Engineering Controls
A laboratory fume hood or other appropriate form of local exhaust ventilation should be used to avoid exposure.
Personal Protective Equipment
All recommendations below are advisory in nature and a risk assessment should be performed by the employer/ end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.
Eye/Face Protection
Safety glasses or safety goggles. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).
Skin Protection
Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.
Body Protection
Fire resistant (Nomex) lab coat or coveralls.
Respiratory Protection
Recommended respirators are NIOSH-approved N95 or CEN-approved FFP2 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid	Odor	No data available
Odor Threshold	No data available	pH	No data available
Melting Point/Freezing Point	225-227 °C	Boiling Point Range	No data available
Flash point	No data available	Evaporation Rate	No data available
Flammability (Solid/Gas)	No data available	Vapor Pressure	No data available
Vapor Density	No data available	Relative Density	No data available
Explosive Properties	No data available	Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available	Viscosity	No data available
Upper/lower explosive limits	No data available	Oxidizing Properties	No data available
Solubility	Dichloromethane, DMSO, Methanol	Partition Coefficient: n-octanol/water	No data available

10. STABILITY AND REACTIVITY

Reactivity
No data available
Chemical Stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
No data available
Conditions to Avoid
No data available
Incompatible Materials
Strong oxidizing agents.
Hazardous Decomposition Products
No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects
Acute Toxicity
No data available
Skin Corrosion/Irritation
No data available
Serious Eye Damage/Irritation
No data available
Respiratory or Skin Sensitization
No data available
Germ Cell Mutagenicity
No data available
Carcinogenicity
Probable human carcinogen by structural homology to an identified carcinogen. A structurally related compound has been designated by the IARC as Group 2A: Probably carcinogenic to humans.
Reproductive Toxicity/Teratogenicity
Possible human reproductive toxin/teratogen. Several laboratory studies have shown structurally similar molecules exhibit reproductive toxicity/teratogenicity in animal models.
Single Target Organ Toxicity - Single Exposure
No data available
Single Target Organ Toxicity - Repeated Exposure
No data available
Aspiration Hazard
No data available
Potential Health Effects and Routes of Exposure

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.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.
Additional Information
RTECS: Not available

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
no data available

13. DISPOSAL CONSIDERATIONS

Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

Contaminated Packaging

Dispose of as above.

Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

14. TRANSPORT INFORMATION

UN Number

DOT (US): 3077	IATA: 3077	IMDG:3077	ADR/RID:3077

UN Proper Shipping Name

DOT (US)/IATA:

Environmentally hazardous substance, solid, n.o.s. (N-Desmethyltamoxifen HCl)

IMDG/ARD/RID:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-Desmethyltamoxifen HCl)

Transport Hazard Class(es)

DOT (US): 9	IATA: 9	IMDG:9	ADR/RID:9

Packing Group

DOT (US): III	IATA: III	IMDG: III	ADR/RID: III

Environmental Hazards

DOT (US): Marine Pollutant	IATA: Marine Pollutant	IMDG: Marine Pollutant	ADR/RID: Marine Pollutant

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada DSL/NDSL Status:

This product is not listed on the Canadian DSL/NDSL.

United States TSCA Status:

This product is not listed on the US EPA TSCA.

European Union ECHA Status:

This product is not registered with the EU ECHA.

Chemical Safety Assessment

No data available

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.

3/17/2014