

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc. Revision date 23-Apr-2019 Version 1.1

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

Product identifier Product Name

(+)-Nicotine Di-p-toluoyl-D-tartrate Salt

Other means of identification

Product Code UN/ID no Synonyms SC-212380 UN1655 None

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

Classification Acute toxicity - Oral Acute toxicity - Dermal

Label elements Signal word Hazard statements

Symbols/Pictograms

Precautionary Statements - Prevention

Precautionary Statements -Response

Precautionary Statements - Storage Precautionary Statements - Disposal Category 2 Category 2

Danger Fatal if swallowed or in contact with skin



Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Wear protective gloves/protective clothing/eye protection/face protection IF exposed or concerned: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap Immediately call a POISON CENTER or doctor Take off immediately all contaminated clothing and wash it before reuse IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth Store locked up Dispose of contents/container to an approved waste disposal plant



Other Information

Health hazards not otherwise classified (HHNOC) Physical hazards not otherwise classified (PHNOC) Other hazards

Unknown acute toxicity

Not applicable Not applicable Very toxic to aquatic life

0 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No	68935-27-3
Molecular Weight	548.60
Formula	C10H14N2•C20H18O8

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
(+)-Nicotine Di-p-toluoyl-D-tartrate Salt	68935-27-3	100	-	-

4. FIRST AID MEASURES

Description of first aid measures

General advice	Consult a physician if necessary. Remove to fresh air.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
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Eye contact	Wash with plenty of water.
Skin contact	Wash skin with soap and water.
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 Unsuitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. No information available.
Specific hazards arising from the Specific hazards arising from the chemical	No information available.
Hazardous combustion products	Carbon oxides. Nitrogen oxides (NOx).
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	No information available. No information available.

Special protective equipment for fire-fighters



Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

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	Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store at -20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Exposure Limits	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, Eye/face protection Skin and body protection Respiratory protection General hygiene considerations	 such as personal protective equipment Wear safety glasses with side shields (or goggles). Wear protective gloves and protective clothing. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property_	<u>Values</u>
Odor Threshold	No information available
Odor	No information available
color	No information available
Appearance	powder
Physical State	Solid

pH Melting point/freezing point Boiling point/boiling range No information available 148 °C No information available



Flash point Evaporation rate Flammability (solid, gas) Flammability Limits in Air Upper flammability limits Lower flammability limit Vapor pressure Vapor density Relative Density Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties Softening point VOC Content (%) Liquid Density Bulk density

No information available No information available

No information available.

No information available.

No information available

No information available

No information available No information available

10. STABILITY AND REACTIVITY

Reactivity	Not applicable.
Stability	Stable under normal 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	Carbon oxides. Nitrogen oxides (NOx).

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.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms No information available.

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (oral) 5.01 mg/kg

ATEmix (dermal)	50.01 mg/kg

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Delayed and immediate effects as well as chronic effects from short and long-term exposure



Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard Carcinogenicity

No information available. No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	May cause long lasting harmful effects to aquatic life.
Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.
Other adverse effects	No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with
	environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. TRANSPORT INFORMATION

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UN/ID no Proper shipping name Hazard Class Packing Group Special Provisions Description	UN1655 Nicotine compound, solid, n.o.s. 6.1 II 16 UN1655, Nicotine compound, solid, n.o.s., 6.1, II
IATA UN/ID no Proper shipping name Hazard Class Packing Group ERG Code Special Provisions Description	UN1655 Nicotine compound, solid, n.o.s. 6.1 II 6L A3, A5, A6 UN1655, Nicotine compound, solid, n.o.s., 6.1, II
IMDG UN/ID no Proper shipping name Hazard Class Packing Group	UN1655 Nicotine compound, solid, n.o.s. 6.1 II



EmS-No Special Provisions Description F-A, S-A 274, 43 UN1655, Nicotine compound, solid, n.o.s. (, (+)-Nicotine Di-p-toluoyl-D-tartrate Salt), 6.1, II, Marine pollutant

15. REGULATORY INFORMATION

International RegulationsNot applicableThe Montreal Protocol on Substances that Deplete the
Ozone LayerNot applicableThe Stockholm Convention on Persistent Organic PollutantsNot applicableThe Rotterdam ConventionNot applicable

International Inventories

All of the components in the product are on the following Inventory lists No information available

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

AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION

NFPA	Health hazards 0	Flammability 0	Instability 0	Physical and chemical properties -		
HMIS	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X		
Legend Section TWA Ceiling	8: EXPOSURE CONTROLS/PEF TWA (time-weighted average) Maximum limit value	RSONAL PROTECTION STEL *	STEL (Short Term Skin designation	Exposure Limit)		
Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Library of Medicine's PubMed database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development Environment, Health, and Safety Publications						



Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

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	20 / 01 2010

Revision note Disclaimer

No information available.

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End of Safety Data Sheet