

1. IDENTIFICATION

Product Name	(S)-Nicotine N-D-glucuronide
Catalogue Number	ND565
Recommended Use	Laboratory research and development.
Supplier	Synthose Inc., 50 Viceroy Road, Unit 7, Concord, Ontario, L4K 3A7, Canada
Emergency Phone No.	+1-905-669-0017
Email	barbara.goss@synthose.com

2. HAZARD IDENTIFICATION**Classification**

Not classifiable according to GHS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	(S)-Nicotine N-D-glucuronide
Synonym	1-D-Glucopyranuronosyl-3-[(2S)-1-methyl-2-pyrrolidinyl]-pyridinium, inner salt
CAS Number	153536-53-9
Molecular Formula	C ₁₆ H ₂₂ N ₂ O ₆
Molecular Weight	338.36

4. FIRST-AID MEASURES

Inhalation	Call a POISON CENTER or doctor/physician if you feel unwell. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash with plenty of soap and water.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes.
Ingestion	Call a POISON CENTER or doctor/physician if you feel unwell.

Most Important Symptoms and Effects, Acute and Delayed

Not determined

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Unsuitable Extinguishing Media	Not determined
Special Protective Equipment and Precautions for Firefighters	Not determined

Specific Hazards Arising from the Hazardous Product

Hazardous Combustion Products	Carbon oxides, Nitrogen oxides
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Use personal protective equipment. Avoid breathing dust, fumes, gas, mist, vapours, or spray.
Methods and Materials for Containment and Cleaning Up	Pick up and arrange disposal without creating dust. Sweep up and shovel or soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Wear protective clothing, gloves, and safety glasses in accordance with good laboratory practices.
Conditions for Safe Storage	Store at 0 to -20 °C. Keep container tightly closed.
Incompatible Materials	Not determined

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Guidelines	Not determined
Appropriate Engineering Controls	Use mechanical exhaust or laboratory fume hood to avoid exposure.
Individual Protection Measures / Personal Protective Equipment	
Eye/Face Protection	Wear safety glasses with side-shields, chemical safety goggles, or face shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection	Handle with gloves. Wear long-sleeved lab coat. Do not wear open-toed shoes.
Respiratory Protection	Use particle respirator for nuisance exposures. For greater protection, use half or full face mask respirator with cartridges. Respiratory equipment should be tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige Solid	Flammable/Explosive Limits	Not determined
Odour	Not determined	Vapour Pressure	Not determined
Odour Threshold	Not determined	Vapour Density	Not determined
pH	Not determined	Relative Density	Not determined
Melting Point	Not determined	Solubility	DMSO, H ₂ O
Boiling Point	Not determined	Partition Coefficient log K _{OW}	Not determined
Flash Point	Not determined	Auto-ignition Temperature	Not determined
Evaporation Rate	Not determined	Decomposition Temperature	Not determined
Flammability (solid, gas)	Not determined	Viscosity	Not determined

10. STABILITY AND REACTIVITY

Reactivity	Not reactive
Chemical Stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	None expected under normal conditions of storage and use
Conditions to Avoid	Open flames, sparks, static discharge, excessive heat
Incompatible Materials	Not determined

Hazardous Decomposition Products

Formed under Fire Conditions	Carbon oxides, Nitrogen oxides
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11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure	Not determined
Inhalation	May be harmful if inhaled, may cause respiratory tract irritation
Skin Contact	May be harmful in contact with skin, may cause skin irritation
Eye Contact	May cause eye irritation
Ingestion	May be harmful if swallowed

12. ECOLOGICAL INFORMATION

Not determined

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, regional, and/or federal regulations.
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

Not dangerous goods for transport according to IATA, IMDG, or ADR.

15. REGULATORY INFORMATION

Canada DSL / NDSL	The components of this product are not on the DSL Inventory but are manufactured at <100kg per year.
USA TSCA	Negative Certification

16. OTHER INFORMATION

Latest Revision	2026-04-22
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Abbreviations

ATE	Acute Toxicity Estimate	DSL	Domestic Substances List
K_{OW}	Concentration in octanol phase / Concentration in aqueous phase	NDSL	Non-Domestic Substances List
LC₅₀	Median Lethal Concentration	TSCA	Toxic Substances Control Act
LD₅₀	Median Lethal Dose	IATA	International Air Transport Association
TDLo	Lowest Known Toxic Dose	IMDG	International Maritime Dangerous Goods
EC₅₀	Half Maximal Effective Concentration	ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
RTECS	Registry of Toxic Effects of Chemical Substances		