SynInnova®
Synthesis for Innovation

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SAFETY DATA SHEET

1. PRODUCT AND COMPANY INFORMATION

Product Name	:	(+)-Biotin N-hydroxysuccinimide ester, >98%
Product No.	:	SL-422
Product Use	:	For laboratory research use only, not for drug, household or other uses.
Manufacture & Supplier	:	SynInnova Laboratories Inc, 17214-106 Avenue NW Edmonton, AB, T5S 1H9, Canada. Tel : 780 485 2962, Fax : 780 485 2963 e-mail : sales@syninnova.com

2. HAZARDS IDENTIFICATION

Hazardous statement(s)	:	H303 May be harmful if swallowed H313 May be harmful in contact with skin H320 Causes eye irritation H333 May be harmful if inhaled
Precautionary statement(s)	:	P260 : Do not breathe dust / fume / gas / mist / vapours / spray. P280 : Wear protective gloves / protective clothing / eye protection / face protection. P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. P303 + 361 + 353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower. P304 + 312 : IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing.
Potential Health Effects	:	Inhalation : May be harmful if inhaled. May cause respiratory tract irritation. Skin : May be harmful if absorbed through skin. May cause skin irritation. Eyes : May cause eye irritation. Ingestion : May be harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	:	(+)-Biotin N-hydroxysuccinimide ester
Synonym	:	Biotinyl-N-hydroxy-succinimide; NHS-Biotin
CAS No.	:	35013-72-0
Molecular formula	:	$C_{14}H_{19}N_3O_5S$
Molecular weight	:	341.38
Chemical concentration	:	<=100%

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4. FIRST AID MEASURES

Skin contact : Immediately wash skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, seek medical attention.

Eye contact : Immediately wash skin with copious amounts of water for at least 15 minutes. Assure adequateflushing of the eyes by separating the eyelids with fingers. If irritation persists, seek medicalattention.

Inhalation : Remove to fresh air. In severe cases or if symptoms persist, seek medical attention.

Ingestion : Wash out mouth with copious amounts of water for at least 15 minutes. Seek medical attention.

5. FIRE FIGHTING MEASURES

In the event of a fire involving this material, alone or in combination with other materials, use dry powder or carbon dioxide extinguishers. Protective clothing and self-contained breathing apparatusshould be worn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable personal protective equipment which performs satisfactorily and meets local/state/national standards.

Respiratory precaution : Wear approved mask/respirator

Hand precaution : Wear suitable gloves/gauntlets

Skin protection : Wear suitable protective clothing

Eye protection : Wear suitable eye protection

Methods for cleaning up : Mix with sand or similar inert absorbent material, sweep up and keep in a tightly closed container for disposal. See section 12.

Environmental precautions : Do not allow material to enter drains or watercourses.

7. HANDLING AND STORAGE

Handling : This product should be handled only by, or under the close supervision of, those properly qualifiedin the handling and use of potentially hazardous chemicals, who should take into account the fire,health and chemical hazard data given on this sheet.

Storage : Keep container tightly closed under nitrogen or argon and refrigerate for long-term shelf life.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls : Use only in a chemical fume hood.

Personal protective equipment : Wear laboratory clothing, chemical-resistant gloves, safety goggles and appropriate respirator mask.

General hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Off-white solid
Boiling point	:	No data available
Melting point	:	Not available
Flash point	:	No data available
Density	:	No data available

10. STABILITY AND REACTIVITY

Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	Strong-oxidizing agents.
Possible hazardous combustion products	:	Carbon dioxide, Carbon monoxide, nitrogen oxides (NOx), and other decomposition products.

11. TOXICOLOGICAL INFORMATION

No data available

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATION

Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

14. TRANSPORTATION INFORMATION

Non-hazardous for air and ground transportation.

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

This SDS is correct to the best of our knowledge at the date of publication but we cannot accept liability for any loss, injury or damage, which may result from its use.