

# SAFETY DATA SHEET

Creation Date 25-Nov-2010

Revision Date 28-Dec-2021

**Revision Number** 4

1. Identification

Product Name

(+)-Biotin N-hydroxysuccinimide ester, 98%

Cat No.:AC439300000, AC439300010, AC439302500SynonymsNo information available

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

CompanyAcros OrganicsFisher Scientific CompanyOne Reagent LaneOne Reagent LaneOne Reagent LaneFair Lawn, NJ 07410Fair Lawn, NJ 07410Tel: (201) 796-7100Fair Lawn, NJ 07410

 Emergency Telephone Number
 For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99
 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Up

Component			AS No	Weight %	
(+)-Biotin N-hydroxysuccinimide e	ster, 98%	350	)13-72-0	>95	
		Elizable della			
	4.	First-aid m	easures		
ye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
kin Contact		Nash off immediately with plenty of water for at least 15 minutes. Get medical attention mmediately if symptoms occur.			
halation	Remove to fr	esh air. Get medi	cal attention immedia	ately if symptoms occur.	
ngestion	Clean mouth symptoms or		ink afterwards plenty	of water. Get medical attention if	
lost important symptoms and	None reason	ably foreseeable.			
ffects lotes to Physician	Treat sympto	matically			
	5. Fi	re-fighting	measures		
uitable Extinguishing Media	Water spray,	carbon dioxide (C	CO2), dry chemical, a	alcohol-resistant foam.	
Insuitable Extinguishing Media	No information available				
Flash Point Method -	No information available No information available				
Autoignition Temperature Explosion Limits	Not applicabl	е			
Upper	No data avail	able			
Lower	No data avai				
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	ct No information available No information available				
pecific Hazards Arising from the C hermal decomposition can lead to rel ources of ignition.		ng gases and vap	ors. Keep product an	nd empty container away from heat	
lazardous Combustion Products Carbon monoxide (CO). Carbon dioxid Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefig	hters		approved or equivalent) and full	
IFPA					
Health 1	Flammab 1	шту	Instability 0	Physical hazards N/A	
	6. Accio	lental relea	ase measures	S	
Personal Precautions	Ensure adeq formation.	uate ventilation. L	Jse personal protectiv	ve equipment as required. Avoid du	
Environmental Precautions	formation. Should not be released into the environment. See Section 12 for additional Ecological Information.				

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in freezer. Incompatible Materials. Strong oxidizing agents.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical	and chemical properties
Physical State	Powder Solid
Appearance	White
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	202.3 - 202.7 °C / 396.1 - 396.9 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C14 H19 N3 O5 S
Molecular Weight	341.39

# 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stability	Stable under recommended storage conditions.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products	s Carbon monoxide (CO), Carbon dioxide (CO $_2$ ), Nitrogen oxides (NOx), Sulfur oxides	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

## 11. Toxicological information

### Acute Toxicity

Oral LD50 Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.	
Mist LC50	Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.	
Component Information Toxicologically Synergistic Products	No information available	
Delayed and immediate effects as	well as chronic effects from short and long-term exposure_	
Irritation	No information available	

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
(+)-Biotin N-hydroxysuccinimide ester, 98%	35013-72-0	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information available							
Reproductive Effect	S	No information available.							
Developmental Effe	cts	No information ava	ailable.						
Teratogenicity		No information available.							
STOT - single expos STOT - repeated exp		None known None known							
Aspiration hazard		No information available							
Symptoms / effects delayed	,both acute and	d No information available							
Endocrine Disrupto	r Information	on No information available							
Other Adverse Effect	Other Adverse Effects         The toxicological properties have not been fully investigated.								
		12. Ecol	ogical infor	mation					

<u>Ecotoxicity</u> Do not empty into drains.	
Persistence and Degradability	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available.

#### Mobility

No information available.

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
	14. Transport information
DOT	Not regulated
	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
(+)-Biotin N-hydroxysuccinimide ester, 98%	35013-72-0	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

- - NOL LISIEU

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
(+)-Biotin N-hydroxysuccinimide	35013-72-0	-	-	-	-	-		-	Х	-
ester, 98%										

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know	Not applicable

### Regulations

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
(+)-Biotin N-hydroxysuccinimide ester, 98%	35013-72-0	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
(+)-Biotin N-hydroxysuccinimide ester, 98%	35013-72-0	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
Creation Date	25-Nov-2010			
Revision Date	28-Dec-2021			
Print Date	28-Dec-2021			
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

### End of SDS