

# Safety Data Sheet per OSHA HazCom 2012

Review	ved on 12/26/2013
1 Identification	
Product identifier Product name: N-Boc-D-proline N-hydroxysuccinimide ester	
Stock number: H54249 CAS Number:	
102185-34-2 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> <b>Identified use:</b> SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0	0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable Haard nietorrams Not applicable	
Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable	
WHMIS classification Not controlled Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I   FIRE I   FIRE I   REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 102185-34-2 N-Boc-D-proline N-hydroxysuccinimide ester	
4 First-aid measures	
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)	
Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required. Reference to other sections	
<b>Reference to other sections</b> See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.	
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See Section 13 for disposal information.

7 Handling and storage

Handling Precautions for safe handling Keep container tightly sealed. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Store in freezer (-20 °C). Information about storage in one common storage facility: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Property operating chemical tume hood	designed for nazardous chemicals and naving an average face velocity of at least 100 feet per minute.			
Control parameters				
Components with limit values that rec	juire monitoring at the workplace:			
The product does not contain any releva	nt quantities of materials with critical values that have to be monitored at the workplace.			
Additional information: No data				
Exposure controls				
Personal protective equipment				
General protective and hygienic meas				
The usual precautionary measures for h	andling chemicals should be followed			
Keep away from foodstuffs, beverages a	and feed			
Pomovo all soiled and contaminated alo	thing immediately			
Wash hands before breaks and at the el	and of work			
Maintain an ergonomically appropriate w	a o work.			
Breathing equipment: Use suitable res	ning minedaty. not of work. pirator when high concentrations are present.			
Protection of hands:				
Impervious gloves				
Check protective gloves prior to each us	e for their proper condition.			
The selection of suitable gloves not only	e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
Penetration time of glove material (in	minutes) Not determined			
Eve protection: Safety glasses	·			
Eye protection: Safety glasses Body protection: Protective work clothi	ng.			
9 Physical and chemical properties				
Information on basic physical and cho				
General Information	anneai properues			
Appearance:				
Form:	Solid			
Odor:	Solution Not determined			
Odor threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition				
Melting point/Melting range:	Not determined			
Boiling point/Boiling range:	Not determined			
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined			
Flammability (solid, gaseous)	Not determined.			
Ignition temperature	Not determined			
Decomposition temperature:	Not determined			
Auto igniting:	Not determined.			
Danger of explosion:	Not determined.			
Explosion limits:	Not determined.			
Lower:	Not determined			
Upper:	Not determined			
Vapor pressure:	Not applicable.			
Density:	Not determined			
Relative density	Not determined.			
Vapor density	Not applicable.			
Evaporation rate	Not applicable.			
Solubility in / Miscibility with				
Water:	Not determined			
Partition coefficient (n-octanol/water)				
Viscosity:				
dynamic:	Not applicable.			
kinematic:	Not applicable.			
Other information	No further relevant information available.			
10 Stability and recetivity				
10 Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable under recommended storage conditions.				
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.				
Possibility of hazardous reactions Reacts with strong oxidizing agents				
Conditions to avoid No further relevant information available.				
Incompatible materials:				
Oxidizing agents				
Heat				
Hazardous decomposition products:				
Carbon manavida and carbon diavida				

## 10 Stability and reactivity

Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides

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11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.	data	
LD/LC50 values that are relevant for classification: No d Skin irritation or corrosion: May cause irritation	Idia	
Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known.		
Germ cell mutagenicity: No effects known.		
Carcinogenicity: No classification data on carcinogenic pro Reproductive toxicity: No effects known.	operties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity - repeated exposure	ire: No effects known.	
Specific target organ system toxicity - single exposure: Aspiration hazard: No effects known.	: No effects known.	
Subacute to chronic toxicity: No effects known.		
Additional toxicological information: To the best of our ki	knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information	ation available.	
<b>Bioaccumulative potential</b> No further relevant information	available.	
Mobility in soil No further relevant information available. Additional ecological information:		
General notes:	ground water, water course or sowage system	
Do not allow undiluted product or large quantities to reach g Avoid transfer into the environment.	giound water, water course of sewage system.	
<b>Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable.		
vPvB: Not applicable.		
Other adverse effects No further relevant information avail	lable.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local or national regulation Uncleaned packagings:	ins to ensure proper disposal.	
Recommendation: Disposal must be made according to of	fficial regulations.	
14 Transport information		
UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Nat applicable	
	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/7	<b>18 and the IBC Code</b> Not applicable.	
Transport/Additional information: DOT		
Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
15 Regulatory information		
Safety, health and environmental regulations/legislation GHS label elements Not applicable	n specific for the substance or mixture	
Hazard pictograms Not applicable		
Signal word Not applicable Hazard statements Not applicable		
National regulations		
to research and development only. This product must be us	ion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of thi sed by or directly under the supervision of a technically qualified individual as defined	s product is restricted d bv TSCA. This
product must not be used for commercial purposes or in for		
SARA Section 313 (specific toxic chemical listings) Sub.	inces List (DSL) of the Canadian Non-Domestic Substances List (NDSL).	
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance i	is not listed	
<b>Prop 65 - Developmental toxicity</b> Substance is not listed.		
Prop 65 - Developmental toxicity, female Substance is not Prop 65 - Developmental toxicity, male Substance is not l	ot listed. listed	
Information about limitation of use: For use only by techn	nically qualified individuals.	
Other regulations, limitations and prohibitive regulation Substance of Very High Concern (SVHC) according to th	ns the REACH Regulations (EC) No. 1907/2006. Substance is not listed.	
The conditions of restrictions according to Article 67 an	nd Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufactu	ring, placing on the
market and use must be observed. Substance is not listed.		
Annex XIV of the REACH Regulations (requiring Author	r <b>isation for use)</b> Substance is not listed.	
Chemical safety assessment: A Chemical Safety Assessn		USA
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USA

### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service, (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LDS0: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Zafety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)