



1 Identification	
Product identifier	
Product name: <u>N-Boc-propargylamine</u> Stock number: H53406	
CAS Number:	
92136-39-5 Relevant identified uses of the substance or mixture and uses advised against. Identified use: 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 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:	0700
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928	-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
Label elements	
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
\wedge	
GHS07	
Signal word Warning Hazard statements	
H302 Harmful if swallowed. H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsi	ng.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up.	-
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects	
(T)	
Clossification system	
Classification system HMIS ratings (scale 0-4) (Unserview Metericle Mentification System)	
(Hazardouš Materials Identification System)	
FIRE Image: Planmability = 2 REACTIVITY I 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:	
CAS# Description: 92136-39-5 N-Boc-propargylamine	
4 First-aid measures	
Description of first aid measures After inhalation	
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.	(Contd. on page 2)
	USA

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(Contd. of page 1) 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: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Internations for sale nanoling Handle under dry protective gas. Keep container tightly sealed. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Protect from heat. Store away from water/moisture. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Protect from humidity and water. Refrigerate 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. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Solid White to pale brown Not determined Odor: (Contd. on page 3)

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Product name: N-Boc-propargylamine			
		(Contd. of page 2)	
Odor threshold:	Not determined.	(00///0. 0/ page 2)	
pH-value:	Not applicable.		
Change in condition			
<i>Melting point/Melting range: Boiling point/Boiling range:</i>	40-44 °C (104-111 °F) Not determined		
Sublimation temperature / start:	Not determined		
Flash point:	93 °C (199 °F)		
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Not determined.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Densitv:	Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate	Not applicable.		
Solubility in / Miscibility with Water:	Not determined		
Partition coefficient (n-octanol/water	r): Not determined.		
Viscosity: dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Chemical stability Stable under recon	nmended storage conditions.		
Thermal decomposition / conditions	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions R Conditions to avoid No further releva	nt information available.		
Incompatible materials:			
Water/moisture Oxidizing agents			
Heat			
Hazardous decomposition products Carbon monoxide and carbon dioxide			
Nitrogen oxides			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: Harmful if swallowed.			
LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation.			
Eve irritation or corrosion: Causes s	erious eve irritation		
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.			
Carcinogenicity: No classification data	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects known.			
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation.			
Aspiration hazard: No effects known			
Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our 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 available.			
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available.		
Ecotoxical effects:			
Remark: Harmful to aquatic organisms Additional ecological information:			
General notes:			
Do not allow product to reach ground water, water course or sewage system.			
Danger to drinking water if even small quantities leak into the ground. ´ May cause long lasting harmful effects to aquatic life.			
Avoid transfer into the environment.			
Harmful to aquatic organisms Results of PBT and vPvB assessment			
PBT: Not applicable. vPvB: Not applicable.			
Other adverse effects No further relevant	vant information available.		
13 Disposal considerations			
Waste treatment methods Recommendation Consult state local	or national regulations to ensure proper disposal.		
Uncleaned packagings:			
Recommendation: Disposal must be	made according to official regulations.	USA -	
		(Contd. on name 1)	

(Contd. on page 4)

Product name: N-Boc-propargylamine		
	(Contd. of page 3)	
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	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 MARPOL73/78 and the IBC Co	de Not applicable.	
Transport/Additional information: DOT		
Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
 15 Regulatory information Safey, health and environmental regulations/Registation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Heard pictograms GHSOT Signal word Warning Heard pictograms GHSOT Signal word Warning Heard pictograms Field Causes skin Irritation. Proceationary statements Product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Heard pictograms GHSOT Signal word Warning Heard pictograms Field Causes skin Irritation. Proceationary statements Product and breating dustifiume/gas/mist/vapours/spray. Product and breating dustifiume/gas/mist/vapours/spray. Product and breating dustifiume/gas/mist/vapours/spray. Product and breating dustifiume/gas/mist/vapours/spray. Product and the product and the pictogram of the pi		
NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	USA	