

# Safety Data Sheet per OSHA HazCom 2012

<pre>1 1 demittaction Product image: 1-Boc 3-cyanopiperidine Product image: 1-Boc 3-cyanopiperi</pre>	Reviewed 01110/29/2	2014
Product name: 1-Bio: 3-cyanophporidine Stock number: Hol: 4 Stock number: Hol: 4 Stock number: Hol: 4 Stock number: Hol: 4 Stock number: Hol: 4 Hol: 4		
Stock number: H66164         CAR Memory         Construction: Home Head of the substance or mixture and uses advised against.         Head Head of the subplane of the substance or mixture and uses advised against.         Advisories: Stock St		
Prior 19-33 Prior 19-33 Prior 19-33 Prior 19-33 Prior 19-33 Prior 19-33 Prior 19-34 Prior 19-34 Prio	Stock number: H66164	
Description       The supplier         The standard s	91419-53-3	
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Alls Aesar. Berny Store Scientific Chamicals, Inc. Berny Store Scientific Chamicals, Inc. Acad. Tox. 4 H302 Hernful I sevelowed, Acad. Tox. 4 H302 Chamical Intervention, Store Science S	Details of the supplier of the safety data sheet Manufacturer/Supplier:	
30) Bond Street       Served Street         31) Bond Street       Served Street         32) Bond Street       Served Street         33) Bond Street       Served Street         34) Bond Street       Served Street         35) Bond Street       Served Street         36) Bond Street       Served Street         37) Bond Street       Served Street         38) Bond Street       Served Street         39) Bond Street       Served Street         39) Bond Street       Served Street         39) Bond Street       Served S	Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.	
Lense: light local Hormation Department Health, Safely and Environmental Department Emergency Welphone number: Darks for Moldands Finday, Finday, Bam-Tpm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 21 Cassification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	30 Bond Street Ward Hill, MA 01835-8099	
Lense: light local Hormation Department Health, Safely and Environmental Department Emergency Welphone number: Darks for Moldands Finday, Finday, Bam-Tpm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 21 Cassification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	Tel: 800-343-0660 Fax: 800-322-4757	
Emergency telephone number;         During normal business hours, call Carechem 24 at (866) 928-0789.         21 Acard(5) Identification         Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Comment of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Comment of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Comment of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Comment of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Sim: Imit: 2       H33 Charass sim imitaion         Sim: Imit: 2       H33 Charass sim imitaion         Haraschara (Colderwise Classified to Information for norm, heards nor of therwise Classified to Information for norm, heards nor of therwise Classified to Information for norm, heards nor of therwise Classified to Information for norm, heards nor of therwise Classified to Information for norm, heards norm of the substance or the norm of the nore	Email: tech@alta.com www.alfa.com	
2 Hazard(s) Identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	Emergency telephone number:	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Or International Control of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Acute Tox. 4 H302 Hammul if swallowed.         Acute Tox. 4 H302 Hammul if swallowed.         Acute Tox. 4 H302 Hammul if swallowed.         Skin Intl. 2 H315 Courses skin inflation.         By Imm. 2 H315 Courses skin inflation.         Hatards not otherwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hatards not otherwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hatard picture of the substance of	During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
Write Tox. 4 14302 Harmful if swallowed.         Acute Tox. 4 14322 Harmful if swallowed.         Acute Tox. 4 1432 Harmful if nontact with skin.         Acute Tox. 4 1432 Harmful if inhaled.         Skin Int. 2         Skin Int. 2         Performance Service Servic		
Acute Tox. 4 H302 Hamful if swallowed.         Acute Tox. 4 H302 Hamful in contact with skin.         Acute Tox. 4 H332 Hamful in Inhibid.         Strin Inf. 2 H335 Gauses shin inflation.         Haard factor thereins         GHS07         Order         String Tox.         Order         GHS07         String Tox.         String Tox.         Order         GHS07         String Causes shin inflation.         Haard picture string theread thereads.         H335 Gause source and theread theread theread theread theread thereads.         H335 Gause source and theread there		
Acute Tox. 4 H312 Hamful in contact with skin. Acute Tox. 4 H332 Hamful in Inhaled. Skin Inft. 2 H335 Causes skin initiation. Eve Inft. 2 H335 Causes serious eve initiation. STOT SE 3 H333 May cause respiratory initiation. STOT SE 3 H333 May cause respiratory initiation. Causes stifue of the store of the stor	GHS07	
Acute Tox. 4 H322 Hamful I inhaled. Skin Init. 2 H315 Causes serious eye initation. Eye Init. 2A H319 Causes serious eye initation. Transacts not otherwise classified hourdemation known. Label elements Characteristic Constraints in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Harar planents Characteristic Constraints in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Harar planents Characteristic Constraints in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Harar planents Characteristic Constraints in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Harar planents Characteristic Constraints in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Harar planents Characteristic Constraints in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Harar planents Characteristic Constraints in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Harar planents Characteristic Constraints in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Harar planents Harar		
Eve Init: 24 H39 IP Causes serious eye irritation. Hazards not otherwise classified No information known. Label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	Acute Tox. 4 H332 Harmful if inhaled.	
STOT SE 3 H33 May cause respiratory initiation. Hazards not otherwise classified Noi Information Rown. Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms		
Label elements         GHS label elements         The stable elements         The stable elements         The stable elements         GHS label elements         Hazard statements         Hazard statementston <td></td> <td></td>		
Hazard pictograms         Versor         GHS07         Signal word Warning         Hazard statements         H302(+H322)         H301         Causes skin irritation.         H31         Causes skin irritation.         H31         Causes skin irritation.         H31       Causes service yee irritation.         H31       Causes yee irritation.         H31       Cause yee irritation.         H31       Cross weet or to be yee protective of thing yee protection.         P304-P330       FIN FVES: Kinse cautosive with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304-P330       Discord contact with local/regional/national/international regulations.         WHVIS classification       Social causing inmediate and serious toxic effects         D28       Foxic material causing other toxic effects         D28       Foxic material causing other toxic effects         P4       Hausebility = 1	Label elements	
Signal word Warning Hazard statements         Mage Hazard statements         Mill Hazard statements         Mill Hazard statements         Mill Hazard statements         Hazard statements         Hazard statements         Pecautionary statements <t< td=""><td></td><td></td></t<>		
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Hazard statements         Hazard statements         Hazard statements         Causes skin irritation.         Hazard statements         Pecantionary statements         Pacing (Not material causified and service contract (Inservice and traits)         Pacing (Scale 0-4)         Provice material causing timediate and service toxic effects         D2B - Toxic material causing timediate and service toxic effects         D2B - Toxic material causing timediate and service toxic effects         D2B - Toxic material causing timediate and service toxic effects         D2B - Toxic material statements         Hall (acute effects) = 2         Hall (acute effects) = 2         Hall (acute effects) = 2         Hall (acute effects) =	GHS07	
H335       May cause respiratory inflation.         Precautionary statements       P261         Avoid breathing dustflume/gas/mist/vapours/spray.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P3061+P334 IF IN EYES. Rinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P3061+P334 IF IN EYES. Rinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P3061+P340 IF INVELED: Remove person to fresh air and keep comfortable for breathing.         P3061       Stree tocked up.         P3070       Convertained acusing immediate and serious toxic effects         D28 - Toxic material causing other toxic effects       D28 - Toxic material causing street of toxic system         HMINS ratings (scale 0-4)       Health (acut effects) = 2         Health (acut effects) = 2       Plasmability = 1	Signal word Warning Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation. H319 Causes serious eve irritation	
P280       Wear protective gloves/protective clothing/eye protection/face protection.         P305+P351+P380       FIN EVES: Rise scalulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P340       IF INFALED: 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       DBT         D18       Toxic material causing other toxic effects         D28       CO         Classification system       HMIS ratings (scale 0-4)         HMIS ratings (scale 0-4)       Harmability = 1         HMIS ratings (scale 0-4)       Health (acute effects) = 2         Flemmability = 1       Physical Heard         Physical Heard       Physical Heard         PMIS ratings of PBT and vPvB assessment       PBT: Not applicable.         3       Composition/information on ingredients         CASH bescription:       Substances         QASH bescription:       Substances         QASH bescription:       Substances         CASH bescription:       Substances         CASH bescription:       Substances         Supply tresh air. If required, provide artificial respiration. Keep patie	Precautionary statements	
P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMUS classification       D1B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         D2B - Toxic material causing other toxic effects       D2B         Classification system       HMIS ratings (scale 0-4)         (Hazardous Materials Identification System)       (Hazardous Materials Identification = 2         Flammability = 1       PHonto applicable.       PBT and VPVB assessment         PBT: Not applicable.       PUPS: Not applicable.       PUPS: Not applicable.         3 Composition/information on ingredients	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
WHMIS classification         D1B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing other toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D419 - Toxic material characteristication System         PBT and vPVB assessment         PBT into applicable.         3 Composition/information on ingredients         Chemical characterization: Substances         CASH Description:         91419-53-3 1-Bac-3-cyanopiperidine         4 First-aid measures         After inhalation         Supply fresh air. If required, provide artificial respiration. Keep	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
D1B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing other toxic effects         D2B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing immediate and serious toxic effects         Classification system (Hazardous Materials Identification System)         Health (acute effects) = 2 Figure 1 Health (acute effects) = 2 Figure 1 Health (acute effects) = 2 Figure 1 Health (acute leffects) = 1 Physical Hazard = 1         Other hazards Results of PBT and vPvB assessment PBT: Not applicable.         VPvB: Not applicable.         vPvB: Not applicable.         vPvB: Not applicable.         Schemical characterization: Substances CAS# Description: 91419-53-3 1-Boc-3-cyanopiperidine         4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate and/vice.	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
D2B - Toxic material causing other toxic effects	D1B - Toxic material causing immediate and serious toxic effects	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: I	D2B - Toxic material causing other toxic effects	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: I		
(Hazardouš Materials Identification System)         Health (acute effects) = 2         Flammability = 1         Physical Hazard = 1         Other hazards         Results of PBT and vPvB assessment         PBT: Not applicable.         vPvB: Not applicable.         VPvB: Not applicable.         S Composition/information on ingredients         Chemical characterization: Substances         CASH Description:         91419-53-3 1-Boc-3-cyanopiperidine         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.		
File       Flammability = 1         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:       91419-53-3 1-Boc-3-cyanopiperidine         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.	(Hazardous Materials Identification System)	
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vPvB: Not applicable.         3 Composition/information on ingredients         Chemical characterization: Substances         CAS# Description:         91419-53-3 1-Boc-3-cyanopiperidine         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.	Results of PBT and vPvB assessment PBT: Not applicable	
Chemical characterization: Substances CAS# Description: 91419-53-3 1-Boc-3-cyanopiperidine 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immedicate medical advice.	vPvB: Not applicable.	
CAS# Description: 91419-53-3 1-Boc-3-cyanopiperidine 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immedicate medical advice.		
<i>4 First-aid measures</i> <i>Description of first aid measures</i> <i>After inhalation</i> <i>Supply fresh air. If required, provide artificial respiration. Keep patient warm.</i> <i>Seek immediate medical advice.</i>	CAS# Description:	
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<b>After inhalation</b> Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.		
Seek immediate medical advice.	After inhalation	
USA	Seek immediate medical advice.	ae 2)
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#### Product name: 1-Boc-3-cyanopiperidine

(Contd. of page 1)

After skin contact

Immediately wash with water and soap and rinse thoroughly. Seek immediate 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 Hydrogen cyanide (HCN) Nitrogen oxides (NOx) Advice for firefiretarce

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.

Provide a dequate ventilation. Prevention of secondary hazards: No special measures required. 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

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 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 eves and etime.

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 P100 (USA) or P3 (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:** 

Indervious gloves 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. **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

USA (Contd. on page 3)

# Product name: 1-Boc-3-cyanopiperidine

(Contd. of page 2)

		(Contd. of page 2)
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance:		
Form: Color: Odor:	Powder White to yellow Not determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	60-65 °C (140-149 °F) Not determined Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate	Not determined Not determined Not applicable. Not determined Not determined. Not determined. Not applicable.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Re- Conditions to avoid No further relevant Incompatible materials: Water/moisture Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen cyanide Nitrogen oxides	<b>o be avoided:</b> Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents	
Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. rn. <b>- repeated exposure:</b> No effects known. <b>- single exposure:</b> May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	ner relevant information available. elevant information available. mation available. quantities to reach ground water, water course or sewage system. t	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o	or national regulations to ensure proper disposal.	(Contd on page 4)

# Product name: 1-Boc-3-cyanopiperidine

(Contd. of page 3)

# Uncleaned packagings:

Transport information	
UN-Number	UN3439
DOT, IMDG, IATA UN proper shipping name	0///3439
DOT	Nitriles, solid, toxic, n.o.s. (1-Boc-3-cyanopiperidine) NITRILES, SOLID, TOXIC, N.O.S. (1-Boc-3-cyanopiperidine)
IMDG, IATA	NITRILES, SOLID, TOXIC, N.O.S. (1-Boc-3-cyanopiperidine)
Transport hazard class(es)	
DOT	
1 toxe	
$\checkmark$	
Class Label	6.1 Toxic substances. 6.1
Class	6.1 (T2) Toxic substances
Label IMDG, IATA	6.1
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	C 4 Tavia autotanaa
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Toxic substances F-A.S-A
Transport in bulk according to Annex II of MARPOL73	
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN3439, Nitriles, solid, toxic, n.o.s. (1-Boc-3-cyanopiperidine), 6.1, III
Regulatory information Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled Hazard pictograms	on specific for the substance or mixture d in accordance with 29 CFR 1910 (OSHA HCS)
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Department issuing SDS: Global Marketing Departmen Date of preparation / last revision 11/24/2015 / -

(Contd. of page 4)

USA

# Product name: 1-Boc-3-cyanopiperidine

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) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent US0: Lethal concentration, 50 percent VPWE 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) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)