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Product name: (2) -1-Boc-3-hydroxypiperidine         Stock number:         Book number:         Restriction:         Book number:         Restriction:         Book number:         Restriction:         Restriction:         Book number:         Restriction:         Restric	1 Identification
Section number: HESSS Here with identified uses of the substance or mixture and uses advised against. Here is the supplied of the single of	
CAS Imaging:       Framework information         Constrained and a set of the substance or mixture and uses advised against.       Expension of the substance or mixture and uses advised against.         Constrained against advised against advised against advised against advised against.       Expension of the substance or mixture and uses advised against.         Constrained against advised advised advised against advised adv	
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Bigling of the supplier of the safety data sheet       Image: Scientific Chomicals. Inc.         With a science in the set of the safety data sheet       Image: Scientific Chomicals. Inc.         With a science in the set of the safety data sheet       Image: Scientific Chomicals. Inc.         With a science in the safety data sheet       Image: Scientific Chomicals. Inc.         With a science in the safety and science in the scin the science in the science in the scince in	Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
The monoplane       Second in Cohemicals, Inc.         Ward Hill, Mich, Kisza-Baoog       Second Seco	Manufacturer/Supplier:
Ward Mark 10185-0009         Ward Mark 1019         Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Ward 1019         Ward 1019         Status 101         Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Ward 1019         Status 101         Ward 1019         Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Ward 1019         Ward 1019 <td>Thermo Fisher Scientific Chemicals, Inc.</td>	Thermo Fisher Scientific Chemicals, Inc.
Fast Biological       Biologi	Ward Hill, MA 01835-8099
www.site.com       With a state of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         2       Azard (s) Identification         Caselination of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         With 2       H315 Causes skin intation.         Explicit 2       GHS0         She int 2       H315 Causes skin intation.         Explicit 2       H315 Causes skin intation.         First 3       H316 Causes skin intation.         First 3       H316 Causes skin intation.         First 3       H316 Causes skin intation.         First 4       H315 Causes skin intation.         First 4       H316 Causes skin intation.         First 5       H316 Causes skin intation.         First 5       H316 Causes skin intation.	Tel: 800-343-0660 Fax: 800-322-4757
Emergency telephone number: Jung normal subaness hours, call Carechem 24 at (866) 928-0789. 21 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) General Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Skin Int 2 H315 Clauses skin initiation. Strol FE 3 H335 May cause respiratory imitation. Strol FE 3 H335 May cause respiratory imitation. Haard science in the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Macards not obterwise classified for information for the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Macard for information for the strong information for the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Macard for our Manning Macard statements Productionary statements Productio	www.alfa.com
2 Hazard(s) identification         Chazard(s) identification         Q Hazard(s) identification         Q GHS07         Shin Int. 2, H315 Causes skin initiation.         Eye Int. 2A H315 Causes skin initiation.         Hazard(s) identification         Maxado not otherwise classified in information known.         Maxado not otherwise classified in information known.         Maxado not otherwise classified in information known.         Construction         Maxado not otherwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Construction	Emergency telephone number:
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) OF NOT For Int: 3A 1731 Causes serious eye irritation. For Int: 3A 1731 Causes serious eye irritation. Haard pictory classified No Information known. Label elements GNS label elements GNS label elements For Story Statements GNS label elements GNS label elements FOR State label elements	During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
Wint 2       H315 Causes skin initiation.         Fyr Int 2 A H315 Causes skin initiation.         Strong 1         Strong 1         Action 1         Action 1         Composition 1         Action 1	
Swin Int. 2       H315       Causes serious eye irritation.         Strom Fil. 32       H319       Causes serious eye irritation.         Strom Fil. 335       Marcus classified no information known.       Strom File	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Ever Inf: 2A H319 Causes serious ever initiation. STOT 5E 3 H325 May cause respiratory initiation. Hazards not otherwise classified to information known. Label elements GNS label ele	GHS07
STOT SE 3 H335 May cause respiratory initiation. Hazards not otherwise classified No information known. Label elements GNS label elements H315 Causes skin initiation. H315 Causes label elements H315 Causes label elements H315 Causes skin initiation. H315 Causes skin initiation. H315 Causes label elements H315 Causes skin initiation. H315 Causes label elements H315 Causes label element	
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GKB label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         With a construction of the construction of	
Strait word Warning Harzer's takements Hill 2 causes Skin Initiation.         Hill 2 causes Skin Initiation.         Hill 2 causes Skin Initiation.         Precautionary statements Precautionary statements Precau	GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Strait word Warning Harzer's takements Hill 2 causes Skin Initiation.         Hill 2 causes Skin Initiation.         Hill 2 causes Skin Initiation.         Precautionary statements Precautionary statements Precau	
Hazard statements' H315 Gauses skin irritation. H319 Dauses serious eye irritation. H310 Hazards favore every irritation. H320 H423 H2 H1 EYES, Finise cautiously with water for several minutes. Renove contact lenses, if present and easy to do. Continue rinsing. H320 H423 H2 H1 EYES, Finise cautiously with water for several minutes. Renove contact lenses, if present and easy to do. Continue rinsing. H320 H423 H2 H1 EVES, Finise cautiously with water for several minutes. Renove contact lenses, if present and easy to do. Continue rinsing. H320 H423 H2 H1 ED Remove person to friste air and keep controtable for breathing. H320 Classification system HMIS ratings (calse 04 or toxic effects) D28 - Toxic material aausing other toxic effects         WWW       Classification system HMIS ratings (scale 04) (Hazardous Material Identification System) Hammability = 1 Health (acute effects) = 1 Fynyscal Hazard = 1 Other hazards Results of PBT and vPVB assessment PHysical Hazards 1 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 14390(-43) (R)-1-Boc-3-hydroxypiperidine         4 First-aid measures After inhalation Supply Iresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate advice. After skin contact Materials How and material company and minutes under running water. Then consult a doctor. After skin contact Materials How and coap and minutes under running water. Then consult a doctor. After symptoming See medical treatment.	GHS07
D2B - Toxic material causing other toxic effects         D2B         Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Health (acute effects) = 1 Flammability = 1 Physical Hazard = 1         Other hazards Results of PBT and vPvB assessment PBT: Not applicable.         3 Composition/information on ingredients Chemical characterization: Substances CASt Description: 14390-43-0 (R)-1-Boc-3-hydroxypiperidine         4 First-aid measures Meet in mediate medical advice. After skin contact Immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye k medical texternet.	Hāzard statements         H315 Causes skin irritation.         H315 Causes skin irritation.         H315 Causes serious eye irritation.         H335 May cause respiratory irritation.         H335 May cause respiratory irritation.         Precautionary statements         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 rinsing.         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.
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: State 0-4) (Hazardous Materials Identification System)         Other hazards Results of PBT and vPvB assessment PBT: Not applicable.         3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 143900-43-0 (R)-1-Boc-3-hydroxypiperidine         4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immedical advice. After skin contact Immedical dvice.         Material stately wash with water and soap and rinse thoroughly. Seek inmedical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After syallowing Seek medical treatment.	D2B - Toxic material causing other toxic effects
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: State 0-4) (Hazardous Materials Identification System)         Other hazards Results of PBT and vPvB assessment PBT: Not applicable.         3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 143900-43-0 (R)-1-Boc-3-hydroxypiperidine         4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immedical advice. After skin contact Immedical advice.         Material substately wash with water and soap and rinse thoroughly. Seek inmedical advice. After syallowing Seek medical advice.         After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After syallowing Seek medical treatment.	$(\mathbf{T})$
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Flammability = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CASE Description: 143900-43-0 (R)-1-Boc-3-hydroxypiperidine 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 Immediate medical advice. After swallowing Seek medical treatment. Seek immediate medical advice. After swallowing Seek medical treatment. Seek immediate medical advice. After swallowing Seek medical treatment. Seek immediate medical treatment. Seek immediate medical advice. Seek immediate medical advice. After swallowing Seek medical treatment. Seek immediate medical advice. Seek immediate medic	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.         3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 143900-43-0 (R)-1-Boc-3-hydroxypiperidine         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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye under the medical treatment.	FRE 1 Flammability = 1
PBT: Not applicable.         vPvB: Not applicable.         3 Composition/information on ingredients         Chemical characterization: Substances         CAS# Description:         143900-43-0 (R)-1-Boc-3-hydroxypiperidine         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 immediate medical advice.         After symbolicate medical advice.         After skin contact         Immediately wash with water and soap and rinse thoroughly.         Seek immediate medical advice.         After symbolicate medical advice.         After symbolicate medical advice.         After symbolicate medical advice.         After skin contact         Immediately wash with water and soap and rinse thoroughly.         Seek immediate medical advice.         After symbolicater medical treatment.	Other hazards
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 143900-43-0 (R)-1-Boc-3-hydroxypiperidine 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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	PBT: Not applicable.
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CAS# Description: 143900-43-0 (R)-1-Boc-3-hydroxypiperidine 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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
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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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	143900-43-0 (K)-1-Boc-3-hydroxypiperidine
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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
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.	After inhalation
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.	Supply tresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.
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.	After skin contact Immediately wash with water and soap and rinse thoroughly.
After swallowing Seek medical treatment.	Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
USA	After swallowing Seek medical treatment.

## Product name: (R)-1-Boc-3-hydroxypiperidine (Contd. of page 1) 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) Possibly Hydrogen cyanide (HCN) 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 material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate 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 Keep container tightly sealed. Store in cool, dry place in tightly closed containers. 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: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 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: Not required. 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 eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves The selection of suitable 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: Powder Color: White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 43-50 °C (109-122 °F) Not determined Not determined 104 °C (219 °F, Flash point: Flammability (solid, gaseous) Not detèrmined Ignition temperature: Decomposition temperature: Not determined Not determined (Contd. on page 3)

## Product name: (R)-1-Boc-3-hydroxypiperidine

Product name: (R)-1-Boc-3-hydroxy	piperidine	
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Product does not present an explosion hazard. Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not applicable. Not determined Not determined Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. 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 No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Possibly Hydrogen cyanide (HCN)	t information available.	
Reproductive toxicity: No effects know 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 ACGIF rn. <b>- repeated exposure:</b> No effects known. <b>- single exposure:</b> May cause respiratory irritation.	1.
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor- Persistence and degradability No further Bioaccumulative potential No further m Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large of 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. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>t</b>	
13 Disposal considerations		
Waste treatment methods	or national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information Not a hazardous material for transportati	ion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, IMDG, IATA Class Class Label	None None 6.1	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
		(Contd. on page 4) USA —

	Reviewed on 04/08/201
roduct name: (R)-1-Boc-3-hydroxypiperidine	
	(Contd. of page 3
Transport in bulk according to Annex II of MARPO	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
5 Regulatory information Safety, health and environmental regulations/legis GHS label elements The product is classified and lat Hazard pictograms	slation specific for the substance or mixture beled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07 Signal word Warning Hazard statements	
H315 Causes skin irritation.         H319 Causes serious eye irritation.         H335 May cause respiratory irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mis         P280       Wear protective gloves/protective         P305+P351+P338 IF IN EYES: Rinse cautiously with         P304+P340       IF INHALED: Remove person to fr         P405       Store locked up.         P501       Dispose of contents/container in a         National regulations       This product is not listed in the U.S. Environmental Pr         to research and development only. This product must product must not be used for commercial purposes of SARA Section 313 (specific toxic chemical listing:         California Proposition 65       Prop 65 - Chemicals known to cause cancer Substance is not 1         Prop 65 - Developmental toxicity, female Substance in formation about limitation of use: For use only by Other regulations, limitations and prohibitive regulations	clothing/eyé protection/face protection. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. resh air and keep comfortable for breathing. accordance with local/regional/national/international regulations. rotection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted t be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This r in formulations for commercial purposes. <b>s</b> ) Substance is not listed. listed. re is not listed. listed. y technically qualified individuals. ulations <b>ng to the REACH Regulations (EC) No. 1907/2006.</b> Substance is not listed. <b>e 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the</b> <b>Authorisation for use)</b> Substance is not listed.
information to ensure proper use and protect the heal	plement to other information gathered by them, and should make independent judgement of suitability of this Ith and safety of employees. This information is furnished without warranty, and any use of the product not in in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Departm Date of preparation / last revision 1/24/2015/- Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandise IAAD: Reglement international concernant le transport des marchandise IAAD: Richard Civil Aviation Organization ICAO: Thermational Civil Aviation Organization ICAO: Thermational Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Abstracts Service (division of the American Chemical S HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada, LCSO: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (U OSHA: Occupational Safety and Health Administration (USA) WHP: National Toxicology and Health Administration (USA)	

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA -