

Safety Data Sheet per OSHA HazCom 2012

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Product name: (B)-(C)-2.4.mino-1-(benzyloxycarbonyl)pyrrolidine Stock number: Stock number: Physical relations of the substance or mixture and uses advised against. How minimum stock of the substance or mixture and uses advised against. How minimum stock of the substance or mixture and uses advised against. How minimum stock of the substance or mixture and uses advised against. How minimum stock of the substance or mixture and uses advised against. How minimum stock of the substance or mixture and uses advised against. How minimum stock of the substance or mixture and uses advised against. How minimum stock of the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 14224 CSI (Biotennia functions) For the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 14234 CSI (Biotennia functions) For the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 14234 CSI (Biotennia functions) For the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 14234 CSI (Biotennia functions) For the substance are used againstance. For the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 14234 CSI (Biotennia functions) For the substance are used againstance. For the substance are unable for the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 14234 CSI (Biotennia functions) For the substance are unable for the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 14234 CSI (Biotennia functions) For the substance are used as the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 14244 CSI (Biotennia functions) How for the substance are used as the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 1434 CSI (Biotennia functions) How for the substance are used as the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 1434 CSI (Biotennia functions) How for the substance are used as the substance or mixture in decordance with 29 CFR 1910 (05HA HCS) ↓ 1434 CSI (Biotennia fun	1 Identification	
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Product name: (R)-(-)-3-Amino-1-(benzyloxycarbonyl)pyrrolidine

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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 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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. 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 Handle under dry protective gas. 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 air. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. 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: 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. Do not inhale dust / smoke / mist. 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 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: Liquid Color: Colorless to yellow Odor: Odor threshold: Not determined Not determined

Product name: (R)-(-)-3-Amino-1-(benzyloxycarbonyl)pyrrolidine

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roduct name: (R)-(-)-3-Amino-1-(b		(Contra of normal)		
pH-value:	Not determined.	(Contd. of page 2		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	310-316 °C (590-601 °F) Not determined Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	> 110 °C (> 230 °F) Not determined. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not determined 1.155 g/cm ³ (9.638 lbs/gal) Not determined. Not determined.			
O 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: Air Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides				
I 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. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data 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.				
Persistence and degradability No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPVB: Not applicable. Other adverse effects No further relevant information available.				
3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be r	or national regulations to ensure proper disposal. nade according to official regulations.			
4 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable			
		(Contd. on page		

	Reviewed on 04/03/2014
Product name: (R)-(-)-3-Amino-1-(benzyloxycarbo	onyl)pyrrolidine
	(Contd. of page 3)
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	
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	·
15 Regulatory information	
Safety, health and environmental regulations/legislati	ion specific for the substance or mixture
GHS label elements The product is classified and labele	d in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms	
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	
P261 Avoid breathing dust/fume/gas/mist/va	apours/spray.
P280 Wear protective gloves/protective clot	hing/eye protection/face protection. ter 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 accou	rdance with local/regional/national/international regulations.
National regulations	
This product is not listed in the U.S. Environmental Protection to research and development only. This product must be	ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted used by or directly under the supervision of a technically qualified individual as defined by TSCA. This
nroduct must not be used for commercial nurnoses or in t	formulations for commercial nurnoses
SARA Section 313 (specific toxic chemical listings) S	ubstances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
California Proposition 65	
Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity Substance is not liste	d
Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is no Information about limitation of use: For use only by tec	not listed.
Information about limitation of use: For use only by tee	chrically gualified individuals.
Uther requilations limitations and prohibitive requilation	005
The conditions of restrictions according to Article 67	onbernet of the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
market and use must be observed. Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Auth Chemical safety assessment: A Chemical Safety Asses	orisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Asses	ssment has not been carried out.
16 Other information	
Employers should use this information only as a supplem	nent to other information gathered by them, and should make independent judgement of suitability of this independent 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 c	ombination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	t
Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par DOT: US Department of Transportation	Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service (division of the American Chemical Societ HMIS: Hazardous Materials Identification System (USA)	y)
WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative	
ACGIH: American Conferencé of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA)	Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ty)
NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer	
EPA: Environmental Protection Agency (USA)	

USA -