

Safety Data Sheet per OSHA HazCom 2012

1 Identification	
Product identifier Product name: (R)-(+)-3-(Benzyloxycarbonyl)oxazolidine-4-carboxylic acid	
Stock number: H27240	
CAS Number: 97534-84-4 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:	
Call Carechem 24 at +44 (0) 1865 407333 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) 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 Hazard pictograms 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 (acute effects) = 1 FRE Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Net anniachte	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 97534-84-4 (R)-(+)-3-(Benzyloxycarbonyl)oxazolidine-4-carboxylic acid	
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 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 alcoho Special hazards arising from the substance or mixture	ol resistant foam.
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 material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically.	
Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling	
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Product name:	(R)-(+)-3-(Benzyloxyc	arbonyl)oxaz	olidine-4-carbo	oxylic acid
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See Section 8 for information on persor See Section 13 for disposal information	nal protection equipment.	(Contd. of page 1)
Conditions for safe storage, includin Storage Requirements to be met by storeroor	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions: led containers.	
Control parameters		
Protection of hands: Impervious gloves	nandling chemicals should be followed. and feed. working immediately. working environment. spirator when high concentrations are present. se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
9 Physical and chemical properties		
Information on basic physical and ch General Information Appearance: Form: Color: Odor:	emical properties Powder White Not determined	
Odor threshold:	Not determined.	
pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not applicable. 70-74 °C (158-165 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined Not determined Not determined 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 determined Not applicable. Not determined. Not determined. Not applicable. Not applicable. Insoluble : Not determined.	
Viscosity: dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known.		

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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide

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11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects known. Specific target organ system toxicity - repeated exposure: 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 Aquitic toxicity: No further relevant information available. Persistence and degradability No further relevant information available.	
Toxicity	
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. 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.	
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.	
14 Transport information Not a hazardous material for transportation.	
UN-Number DOT, IMDG, IATA None	
UN proper shipping name DOT, IMDG, IATA None	
Transport hazard class(es) DOT, ADR, IMDG, IATA	
Class None	
Packing group DOT, IMDG, IATA None	
Environmental hazards: Not applicable.	
Special precautions for user Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Not dangerous according to the above specifications.	
DOT	
Marine Pollutant (DOT): No	
 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to the GEACH Regulations (EC) No. 1907/2006 (REACH) for the manufacturing, ple market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations	CA. This

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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 user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:

ID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO: Ti: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IMDG: International Civil Aviation of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal dose, 50 percent
VPWs very Persistent and very Bioaccumulative
ACGIH: American Chernental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IMTe: National Toxicology Program (USA)
IATE: International Air Transport Goods (USA)
IATE: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA