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	Identification	
	Product identifier Product name: (R)-3-(Boc-amino)-4-(3,4-dichlorophenyl)butyric acid	
	Stock number: H52042	
1	CAS Number: 269396-56-7	
	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:	
	During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0	0789.
	Phazard(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 Signal word Not applicable	'
1	Hazard statements Not applicable WHMIS classification Not controlled	
	Classification system HMIS ratings (scale 0-4)	
	(Hazardous Materials Identification System)	'
	HEALTH I FIRE I FIRE I FREACTIVITY Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	
	vPvB: Not applicable.	
	Composition/information on ingredients	
	Chemical characterization: Substances CAS# Description: 200006 F6 7 / 0.2 (new emine) 4 (2.4 disklarenkenst/kuturis esid	
	269396-56-7 (R)-3-(Boc-amino)-4-(3,4-dichlorophenyl)butyric acid	
	First-aid measures Description of first aid measures	
	After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
	Supply resh and in required, provide anuncial respiration. Reep 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 cumptome and effects, both south and dolayed No further relevant information qualitable.	
	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)	
	Hydrogen chloride (HCI) Possibly Hydrogen cyanide (HCN)	
	Advice for firefighters	
	Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
-	Accidental release measures Personal precautions, protective equipment and emergency procedures	
	Wear protective equipment. Keep unprotected persons away.	
	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.	(Contd. on page 2)
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Product name: (R)-3-(Boc-amino)-4-(3,4-dichlorophenyl)butyric acid

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. 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.

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

or mysical and chemical properties				
Information on basic physical and ch General Information Appearance: Form: Odor: Odor: Odor threshold:	emical properties Solid Not determined Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Belting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined.			
Danger of explosion:	Product does not present an explosion hazard.			
Explosion limits: Lower:	Not determined			
Upper:	Not determined			
Vapor pressure:	Not applicable.			
Density:	Not determined			
Relative density Vapor density	Not determined.			
Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with				
Water:	Not determined			
Partition coefficient (n-octanol/water).	: 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 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. **Hazardous decomposition products:** Carbon monoxide and carbon dioxide Nitrogen oxides Possibly Hydrogen cyanide (HCN)

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Hydrogen chloride (HCI)	(Contd. of page 2)		
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 know. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute	vn.		
12 Ecological information Toxicity Aquatic toxicity: 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 material to be released to the environment without proper governmental permits. 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.			
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 Coo	de 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 Hazard statements 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 is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. 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, 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, 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, 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, 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, male Substance is not listed. Prop 65 - Developmental toxicity assessment has not been carried			
Chemical safety assessment: A Chemical Safety Assessment has not been	USA		
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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)

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