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Reviewed on U8/11/2015
1 Identification
Product identifier Product name: (R)-3-Amino-4-(4-bromophenyl)butyric acid hydrochloride
Stock number: H52086
CAS Number: 331763-73-6
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) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.
Label elements GHS label elements Hencing piedements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms
GHS07
Signal word Warning
Hazard statements H315 Causes skin irritation.
H319 Causes serious eye irritation. H335 May cause respiratory irritation. <b>Precautionary statements</b>
P261 Avoid breathing dust/fume/gas/mist/vapours/sprav
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. WHMIS classification
D2B - Toxic material causing other toxic effects
(T)
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1
FIRE Flammability = 1 REACTIVITY 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:
331763-73-6 (R)-3-Amino-4-(4-bromophenyl)butyric acid hydrochloride
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 immédiate medical advice. After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor.
After śwallowing Seek medical treatment. (Contd. on page 2
USA -

## Product name: (R)-3-Amino-4-(4-bromophenyl)butyric acid hydrochloride

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.

(Contd. of page 1)

## 5 Fire-fighting measures

pH-value:

Not applicable.

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 (HCl) Hydrogen bromide (HBr) 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: 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: 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. Vash 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 N95 (USA) or PE (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:** 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 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

## Product name: (R)-3-Amino-4-(4-bromophenyl)butyric acid hydrochloride

Change in condition		(Contd. of page 2)		
Change in condition Melting point/Melting range:	225-227 °C (437-441 °F)			
Boiling point/Boiling range:	Not determined Not determined			
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined.			
Ignition temperature: Decomposition temperature:	Not determined Not determined			
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower:	Not determined			
Upper: Vapor pressure:	Not determined			
Density:	Not applicable. Not determined			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate	Not applicable.			
Solubility in / Miscibility with Water:	Not determined			
Partition coefficient (n-octanol/water):				
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 recommender the stability of the stability	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions Rea	eacts with strong oxidizing agents			
Conditions to avoid No further relevant Incompatible materials:	t information available.			
Air				
Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide				
Carbon monoxide and carbon dioxide Nitrogen oxides				
Hydrogen chloride (HCl) Hydrogen bromide				
Hydrogen bromide				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: No effects known. LD/LC50 values that are relevant for c	Massification. No data			
Skin irritation or corrosion: Causes skin irritation.				
<b>Eye irritation or corrosion:</b> Causes ser <b>Sensitization:</b> No sensitizing effects known	Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known.			
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.				
<b>Reproductive toxicity:</b> No effects know	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.				
Additional toxicological information:	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant info	iormation available			
Persistence and degradability No furth	her 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: T 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	Avoid transfer into the environment.			
PBT: Not applicable.				
vPvB: Not applicable. Other adverse effects No further releva	ant 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.				
Recommendation: Disposal must be ma	ade according to official regulations.			
14 Transport information				
UN-Number	Natappliaabla			
DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA				
Class	Not applicable	(Q = = = = = = = = 1)		
L		(Contd. on page 4)		

## Product name: (R)-3-Amino-4-(4-bromophenyl)butyric acid hydrochloride

	(Contd. of page 3)			
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 MARPOL	73/78 and the IBC Code Not applicable.			
Transport/Additional information:				
DOT Marina Ballutant (DOT):	Ma			
Marine Pollutant (DOT): UN "Model Regulation":	No			
15 Regulatory information				
Safety, health and environmental regulations/legisla GHS label elements The product is classified and label Hazard pictograms	<i>tion specific for the substance or mixture</i> led in accordance with 29 CFR 1910 (OSHA HCS)			
$\langle ! \rangle$				
GHS07				
Signal word Warning				
Hazard statements				
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P304+P340 IF INHALED: Remove person to fres. P405 Store locked up.	h air and keep comfortable for breathing.			
P501 Dispose of contents/container in acc	ordance with local/regional/national/international regulations.			
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.				
This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).				
SARA Section 313 (specific toxic chemical listings) California Proposition 65	Substance is not listed.			
Prop 65 - Chemicals known to cause cancer Substan	ice is not listed.			
Prop 65 - Developmental toxicity Substance is not list Prop 65 - Developmental toxicity, female Substance i Prop 65 - Developmental toxicity, male Substance is	ed. is not listed.			
Prop 65 - Developmental toxicitý, male Substance is Information about limitation of use: For use only by te	not listed.			
Other regulations, limitations and prohibitive regulations	tions			
Substance of Very High Concern (SVHC) according to The conditions of restrictions according to Article 6	tons to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 7 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 Aut	horisation for use) Substance is not listed.			
Chemical safety assessment: A Chemical Safety Asse	essment has not béen carried out.			
16 Other information				
Employers should use this information only as a suppler	ment to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not in			
	combination with any other product or process, is the responsibility of the user.			
Department issuing SDS: Global Marketing Departmen Date of preparation / last revision 11/24/2015 / -	nt			
AUK: Accord europeen sur le transport des marchandises dangereuses pa DOT: US Department of Transportation CAS: Chemical Apstracts Source (division of the American Chemical Apstracts	ar Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) iety) A)			
HMIS: Hazardous Materials Gervice (givision of the American Chemical Socie HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)	ery)			
LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent				
vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hvaienists (USA	4)			
OSHA: Occupational Safety and Health Administration (USA)	7			

OGHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)