



<b>Keview</b>	ea on 03/07/2012
1 Identification	
Product identifier Product name: <b>3-Phenylcarbamoylbenzeneboronic acid</b>	
Stock number: H52612	
CAS Number: 397843-71-9	
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	789.
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. Hazards not otherwise classified No information known.	
Label elements GHS label elements 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>	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
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. WHMIS classification DOD Toxic protect for the storie offects	
D2B - Toxic material causing other toxic effects	
$(\underline{\mathbf{U}})$	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I 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	
<b>CAS# Description:</b> 397843-71-9 3-Phenylcarbamoylbenzeneboronic 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 swallowing Seek medical treatment.	(Contd. on page 2)

## Product name: 3-Phenylcarbamoylbenzeneboronic acid

(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) Boron oxide 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: 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 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 aves and exin. 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: Powder Color: White to off-white Odor: Not determined Odor threshold: Not determined Not applicable. pH-value: Change in condition Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: 250-260 °C (482-500 °F) Not determined Not determined Not determined. Not determined Not determined

## Product name: 3-Phenvlcarbamovlbenzeneboronic acid

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Product name: <b>3-Phenylcarbamoylb</b>	penzeneboronic acid	
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known		1
Chemical stability Stable under recom	nmended storage conditions. <b>to be avoided:</b> Decomposition will not occur if used and stored according to specifications.	1
Thermal decomposition / continuous a Possibility of hazardous reactions Re	to be avoided: Decomposition will not occur it used and stored according to specifications.	1
Possibility of hazardous reactions Re Conditions to avoid No further relevant	it information available.	
Incompatible materials: Oxidizing agei Hazardous decomposition products:	ints	
Carbon monoxide and carbon dioxide		1
Boron oxide Nitrogen oxides		
Ŭ		i
11 Toxicological information		1
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for c		
Skin irritation or corrosion: Causes sk Eye irritation or corrosion: Causes se	kin irritation.	1
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	nous eye innation. nown.	1
Germ cell mutagenicity: No effects kno	nown. Iequate for an assessment of human carcinogenic potential.	1
Reproductive toxicity: No effects know	Wn.	1
Specific target organ system toxicity	<ul> <li>repeated exposure: No effects known.</li> <li>single exposure: May cause respiratory irritation.</li> </ul>	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effect	cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
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12 Ecological information		1
Toxicity	· f - ···· - · · · · · · · · · · · · · ·	1
Aquatic toxicity: No further relevant inf Persistence and degradability No furth	ther relevant information available.	
Bioaccumulative potential No further r Mobility in soil No further relevant infor	relevant information available.	
Additional ecological information:	rmation available.	
General notes:	d	1
Do not allow undiluted product or large of	the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	1
Avoid transfer into the environment. Results of PBT and vPvB assessment		1
PBT: Not applicable.	it .	
vPvB: Not applicable. Other adverse effects No further releva	vent information available	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state local of		
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be m	nade according to official regulations.	
14 Transport information		
UN-Number		
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	
Packing group	Not or Vicabla	
DOT, IMDG, IATA Environmental bazards:	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user Transport in bulk according to Appex	Not applicable. x II of MARPOL73/78 and the IBC Code Not applicable.	
Iransport III buik according to Anno.		(Contd. on page 4)
		(Contd. on page 4) USA

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roduct name: 3-Phenylcarbamoylbenzer	neboronic acid
	(Contd. of page 3
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Regulatory information Safety, health and environmental regulations GHS label elements The product is classified a Hazard pictograms	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P305+P351+P338 IF IN EYES: Rinse cautious P304+P340 IF INHALED: Remove perso P405 Store locked up. P501 Dispose of contents/containe National regulations This product is not listed in the U.S. Environment to research and development only. This produc product must not be used for commercial purpo This product is not listed on the Canadian Domu SARA Section 313 (specific toxic chemical li California Proposition 65 Prop 65 - Chemicals known to cause cancer Prop 65 - Developmental toxicity, substance i Prop 65 - Developmental toxicity, male Subst Information about limitations and prohibitiv Substance of Very High Concern (SVHC) acd The conditions of restrictions according to A market and use must be observed. Substance is not listed.	ective clothing/eyé protection/face protection. Iy with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. on to fresh air and keep comfortable for breathing. er in accordance with local/regional/national/international regulations. Intal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricter t must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ses or in formulations for commercial purposes. estic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). <b>istings)</b> Substance is not listed. 'Substance is not listed. is not listed. bstance is not listed. is not listed. only by technically qualified individuals. <b>e regulations</b> <b>cording to the REACH Regulations (EC) No. 1907/2006.</b> Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the <b>ining Authorisation for use)</b> Substance is not listed.
information to ensure proper use and protect the conformance with this Material Safety Data She	a supplement to other information gathered by them, and should make independent judgement of suitability of this The health and safety of employees. This information is furnished without warranty, and any use of the product not in Set, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Do Date of preparation / last revision 11/24/2015 Abbreviations and acronyms: RID: Règlement international concernant le transport des marc. ADR: Accord européen sur le transport des marchandises dang DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials lateritals latorstation System (USA) WHMIS: Workplace Hazardous Materials Information System (UCS) UCSD: Lethal concentration, 50 percent LDSD: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygit OSHA: Coccupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IMRC: International Agency (USA)	5 / - chandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) gereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) remical Society) (Canada)