

	dentification
	Product identifier Product name: Benzylboronic acid pinacol ester
	Stock number: H32523
8	CAS Number: 37100-28-5
	Relevant identified uses of the substance or mixture and uses advised against. dentified use: SU24 Scientific research and development
L	Details of the supplier of the safety data sheet
	Nanufacturer/Supplier: Via Aesar Terrme Sicher Seientitie Chemicele, Inc.
	hermo Fisher Scientific Chemicals, Inc. 80 Bond Street Vard Hill, MA 01835-8099
7	and Fills, MA 0163-6099 el: 800-322-4757
E	ax. bou-b22-4107 mail: tech@alfa.com www.alfa.com
	Information Department: Health, Safety and Environmental Department
Ĩ	During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
21	Hazard(s) identification
9	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).
<b>/</b>	lazards not otherwise classified No information known.
	abel elements GHS label elements Not applicable Les references Not applicable
	lazard pictograms Not applicable Signal word Not applicable
	Häzard statements Not applicable VHMIS classification Not controlled
	Classification system IMIS ratings (scale 0-4)
(	Hazardouš Materials Identification System)  VEALTH  I Health (acute effects) = 1
	IFlammability = 1       REACTIVITY I       Physical Hazard = 1
(	Dther hazards
- 1	Results of PBT and vPvB assessment PBT: Not applicable.
	PvB: Not applicable.
	Composition/information on ingredients Chemical characterization: Substances
	AS# Description: 37100-28-5 Benzylboronic acid pinacol ester
	First-aid measures
l	Description of first aid measures
1	After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. seek immediate medical advice.
	After skin contact
	mmediately 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.
- 1	nformation for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.
	ndication of any immediate medical attention and special treatment needed No further relevant information available.
	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.
- 1	Special hazards arising from the substance or mixture t this product is involved in a fire, the following can be released:
E	Carbon monoxide and carbon dioxide Soron oxide
	dvice for firefighters Protective equipment: New rolf entrymed monimum
l	Vear self-contained respirator. Vear fully protective impervious suit.
	Accidental release measures
1	Personal precautions, protective equipment and emergency procedures Vear protective equipment. Keep unprotected persons away.
E	nsure adequate ventilation <b>Expression adequate ventilation</b> <b>Expression and a second second and a second and a second additional a additional additional additionadditional additional additional additional additional </b>
	Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondarv hazards: No special measures required.
1	Reference to other sections See Section 7 for information on safe handling
	See Section 8 for information on personal protection equipment. (Contd. on page 2)

# Product name: Benzylboronic acid pinacol ester

Page 2/4 Printing date 11/24/2015 Reviewed on 08/05/2009

(Contd. of page 1)

See Section 13 for disposal information.

7 Handling 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. 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 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. Penetration time of glove material (in minutes) Not determined Eye protection: Protective work clothing.			
0 Physical and shaminal properties			
9 Physical and chemical propertie Information on basic physical and cl General Information Appearance: Form: Color: Odor:	hemical properties Liquid Colorless Odorless		
Odor threshold: pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined 65 °C (149 °F) 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:	Not determined.		
other information	Not determined. 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. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Boron oxide			
	(Contd. on page 3)		

Product name: Benzylboronic acid pinacol ester

(Control of page 2)		
(Contd. of page 2)		
rial is available from the EPA, IARC, NTP, OSHA or ACGIH. n. and chronic toxicity of this substance is not fully known.		
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. 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		
disposal.		
None		
Not applicable.		
Not applicable.		
e Not applicable.		
Not dangerous according to the above specifications.		
No		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard statements Not applicable Mazional 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 - Developmental toxicity 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, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, formale Substance is not listed. The conditions of restrictions 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 Article 67 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 Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

USA (Contd. on page 4)

## Product name: Benzylboronic acid pinacol ester

#### (Contd. of page 3)

### 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 Information System (ISA)
WHIMIS: 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)
IMTP: National Toxicology Program (USA)
IATE: International Air and the Administration (USA)
IATE: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA