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Protect name: Protect-1-boronic acid Stock number: Stock number: <	1 Identification
Biose Amounter, Free 71 (See Number, Free 71) (See Numer, Free 71) (See Number, Free 71) (See Number,	Product identifier
CASE Number: Description:	Product name: Pyrene-1-boronic acid
Relevant doubling uses of the substance or mixture and uses advised against. Beacher of the subject of the substance or mixture and uses advised against. Beacher of the subject of the	CAS Number:
Brails of the supplies of the safety data sheet Image: Second Secon	Relevant identified uses of the substance or mixture and uses advised against.
The more Salaw Scientific Chamicals, Inc. We will see the set of	Details of the supplier of the safety data sheet Manufacturer/Supplier:
Ward and MA 10055-0009 Emilia (AN 10055-0009) Emilia (AN 10055-0009	Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street
Email, tech-diafa.com therempore displayed number: Lang normal activations house industry. Fielding and Environmental Department Emergency displayed number: Lang normal activations house in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance of the substa	Ward Hill, MA 01835-8099 Tel: 800-343-0660
Internation Department: Health, Safety and Environmental Department Theregony: Methode number: Theregony: Methode number: Parad(s): Identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture is a classified of in accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture is accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture is accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture is accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture is accordance with 29 CFR 1910 (OSHA HCS) Image: Classification of the substance or mixture is a classified or brance or mi	Email: tech@alfa.com
During normal business hours, Cell Carechem 24 at (866) 928-0789. 2 Hazard(s) identification Chasification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Over 10 Status Or Status St	Information Department: Health, Safety and Environmental Department
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07 Soft Int: 2 A H315 Guese serious eye irritation. Have int: 2 A H315 Guese serious eye irritation. Have add soft otherwise classified No information known. Have add soft otherwise add soft otherwise in add keep comindrable for breathing. Have add soft otherwise in a classified No information add here add soft otherwise in a classified No information and regulations. Have add soft of the soft otherwise in add keep comindrable for breathing. Have add soft of the soft otherwise add soft otherwise add soft otherwise in add keep comindrable for breathing. Have add here add soft of the soft otherwise add soft otherwise add soft otherwise add soft otherwise add soft oth	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.
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GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Without the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) GHS07 Signal word Warning Hazard statements H115 Causes skin intration, H115 Causes interview in the product is provided in accordance with local/regional/national/international regulations. P201 Dispose of contents/container in accordance with local/regional/national/international regulations. P201 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMI classification system H115 Causes in activity of content is container in accordance with local/regional/national/international regulations. Without classification system H115 Causes in activity of causes of contents/container in accordance with local/regional/national/international regulations. Without classification system H115 Causes in a drift class is classification system H115 Causes in a drift classification system H115 Causes in a drift classification system H115 Causes is classification on ingredients Case becomption of Inst aid measures H215 Causes in a drift classification is classification is classification. Keep patient warm.	
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Stand word Warning Hast of statements Histo causes skin mitation Histo causes skin mitation. Precautionary statements Precautionary statemen	$\langle 1 \rangle$
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P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P260 Wear protective gloves/protective clothing/eye protection. P304+P351+P330 /F IN EVES. Kinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P351+P330 /F IN EVES. Kinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P351+P330 /F IN EVES. Kinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P351+P330 /F IN EVES. Kinse cauliously with water in accordance with local/regional/national/international regulations. P304+P351+P330 /F IN EVES. P305 Classification system HMINS ratings (scale 0-4) (Hazardous Materials Identification System) (Hazardous IDE) (Hazardous IDE) (Part haz	H335 May cause respiratory irritation.
P304-P301-P308 IF IN EVENTALED: Remove person to fresh air and keep confloctible for breaking in and keep confloctable for breaking in and keep condisticable for breaking in and keep confloct	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eve protection/face protection.
P405 BOD Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material acusing other toxic effects Image: Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) (Hazardous Materials Identification System) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 1 Physical Hazard = 1 Image: Classification is system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) (Hazardous Materials Identification System) Image: Classification is system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification is system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification is system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification is system Rescults of PBT and vPVB assessment PBT: Not applicable. 3 Composition/information on ingredients Classification: Substances Classification is system in accord State measures After inhalation Supply (resh air: If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After set in contact Immediate medical advice. After set in contact After set in contact After set mediate medical advice.	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.
D28 - Toxic material causing other toxic effects Classification system HMIS rating's (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CASE Description: 164401-18-1 Pyrene-1-boronic acid 4 First-aid measures After sincontact Seek immediate medical advice. After sey and with water and soap and rinse thoroughly. Seek immediate medical advice. After sey and with water and soap and rinse thoroughly. Seek immediate medical advice. After sey and with water and soap and rinse thoroughly. Seek immediate medical advice. After sey and with water and soap and rinse thoroughly. Seek immediate medical advice. After sey and with water and soap and rinse thoroughly. Seek immediate medical advice. After sey and with water and soap and rinse thoroughly. Seek immediate medical advice.	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
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Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 164461-18-1 Pyrene-1-boronic 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 Immediate medical advice. After swallowing Seek medical treatment.	
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CAS# Description: 164461-18-1 Pyrene-1-boronic 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 swallowing Seek medical treatment.	•
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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.	
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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.	After skin contact
After swallowing Seek medical treatment.	Seek immediate medical advice.
	After swallowing Seek medical tréatment.
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	Review	ved on 01/03/2014
Product name: Pyrene-1-boronic ac	,id	
		(Contd. of page 1)
Information for doctor Most important symptoms and effects Indication of any immediate medical a	t s, both acute and delayed No further relevant information available. I attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures		
Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide Boron oxide	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Sstance or mixture ollowing can be released:	
Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.		
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unpro Ensure adequate ventilation	rotected persons away.	
Environmental precautions: Do not all		
See Section 7 for information on person See Section 13 for disposal information.	al protection equipment.	
7 Handling and storage		
Handling Precautions for safe handling		
Keep container tightly sealed. Store in cool. dry place in tightly closed	l containers.	
Ensure good ventilation at the workplace	ce. t explosions and fires: No information known.	
Conditions for safe storage, including Storage	•	
Requirements to be met by storeroon Information about storage in one com Further information about storage co Keep container tightly sealed		
Store in cool, dry conditions in well seale Specific end use(s) No further relevant	led containers. It information available.	
8 Exposure controls/personal prote	tection	
Additional information about design of Properly operating chemical fume hood		
Control parameters Components with limit values that red The product does not contain any releva Additional information: No data	equire monitoring at the workplace: ant quantities of materials with critical values that have to be monitored at the workplace.	
Exposure controls Personal protective equipment		
General protective and hygienic meas The usual precautionary measures for h Keep away from foodstuffs, beverages a	s ures handling chemicals should be followed.	
Remove all soiled and contaminated clo	lothing immediately.	
Wash hands before breaks and at the el Avoid contact with the eyes and skin.		
Breathing equipment: Use suitable res Protection of hands:	working environment. spirator when high concentrations are present.	
Impervious gloves Check protective gloves prior to each us The selection of suitable gloves not only	iv dedenos on the material, but also on quality . Quality will vary from manufacture no manufacturer	
Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work clothi	ning.	
9 Physical and chemical properties	 !S	
Information on basic physical and ch General Information		
Appearance: Form:	Powder	
Color: Odor:	Pale yellow Not determined	
Odor threshold:	Not determined.	
pH-value: Change in condition	Not applicable.	
Melting point/Melting range: Boiling point/Boiling range:	247-251 °C (477-484 °F) (lit) Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	(2) (1) on more (
		(Contd. on page 3

Pyrono-1-boronic acid D, duct

Page 3/4 Printing date 11/24/2015 Reviewed on 01/03/2014

Product name: Pyrene-1-boronic acid				
		(Contd. of page 2)		
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper:	Not determined Not determined			
Vapor pressure: Density:	Not applicable. Not determined			
Relative density	Not determined.			
Vapor density Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with Water:	Not determined			
Partition coefficient (n-octanol/water) Viscosity:				
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomn Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Boron oxide	o be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents information available.			
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. rious eye irritation. own. guate for an assessment of human carcinogenic potential. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.			
12 Ecological information Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPVB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	ner relevant information available. elevant information available. mation available. quantities to reach ground water, water course or sewage system. t			
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. ade 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 DOT, IMDG, IATA	Not applicable			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
	II of MARPOL73/78 and the IBC Code Not applicable.			
Transport/Additional information: DOT				
Marine Pollutant (DOT):	No	Contd on page 1		
		(Contd. on page 4)		

(Contd. on page 4)

oduct name: Pyrene-1-boronic acid	
	(Contd. of page
UN "Model Regulation": -	
5 Regulatory information	
Safety, health and environmental regulations/legislation specific for the substance or mixture 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. H315 Causes serious eye irritation. H316 Causes serious eye irritation. H317 Causes serious eye irritation. H318 Causes serious eye irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Con P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P405 Store locked up. P406 Dispose of contents/container in accordance 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. Us to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as 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 (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 <td< td=""><td>se of this product is restricte</td></td<>	se of this product is restricte
Other regulations, limitations 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 mar market and use must be observed. Substance is not listed.	nufacturing, placing on th
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.	
6 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judg information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and ar conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	ement of suitability of this by use of the product not in
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	