



1 Identification	
Product identifier Product name: 2-Nitrobenzeneboronic acid	
Stock number: L17988	
CAS Number: 5570-19-4	
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.	
Eve Irrit, 2A H319 Causes serious eve 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. Precautionary statements	
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 P304-P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	rinsing.
P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2D Toxic metasistic acuting other toxic offects	
D2B - Toxic material causing other toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE Flammability = 1	
REACTIVITY D 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: 5570-19-4 2-Nitrobenzeneboronic 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.	(0
	(Contd. on page 2) USA

Product name: 2-Nitrobenzeneboron	nic acid	
Information for doctor Most important symptoms and effects Indication of any immediate medical a	is, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.	(Contd. of page 1)
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 foll Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Boron oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture Illowing can be released:	
6 Accidental release measures Personal precautions, protective equip Wear protective equipment. Keep unprot Ensure adequate ventilation Environmental precautions: Do not allo Methods and material for containment Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe han See Section 8 for information on persona See Section 13 for disposal information.	otected persons away. The environment without proper governmental permits. If and cleaning up: Ensure adequate ventilation. If special measures required. andling al protection equipment.	
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. g any incompatibilities ms and receptacles: No special requirements. mmon storage facility: Store away from oxidizing agents. onditions:	
8 Exposure controls/personal prote Additional information about design o	ection	
Components with limit values that req Additional information: No data Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for ha Keep away from foodstuffs, beverages a Remove all solied and contaminated clot Wash hands before breaks and at the en Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable resp Protection of hands: Impervious gloves Check protective gloves prior to each use	nandling chemicals should be followed. and feed. sond of work. working environment. spirator when high concentrations are present. se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. o minutes) Not determined	
9 Physical and chemical properties	S	
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor:	Powder Light brown Not determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	149-151 °C (300-304 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not applicable Not determined. Not determined Not determined	
		(Contd. on page 3) USA

Product name: 2-Nitrobenzeneboronic acid

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Auto inputing: Not determined Darger of explosion: Product does not present an explosion hazard. Explosion infinits: Not determined Upper of explosion: Not determined Upper of explosion: Not determined Upper of explorable. Not determined Very pressure: Not applicable. Solubility in Y Miscibility with the dynamined Not determined Particity in Y Miscibility with the dynamined Not applicable. Solubility in Y Miscibility with the dynamined Not applicable. Particity Y is infirmation throws: Not applicable. Other information Not with relevant information available. 11 Stability and reactivity Reactivity is infirmation throws: Reactivity Y is infirmation whom: Not with relevant information available. 11 Toxicological information Not with relevant information available. 11 Toxicological information Not with relevant information available. 11 Toxicological information Not with relevant information 11 Toxicological information Not with relevant information Semistization: Not with relevant information Germ and m	Reviewed on 11/24/2008	
Auto inprintg: Med determined Danger of explosion: Product does not present an explosion hazard. Explosion limits: Net determined Upper We applicable. Internation We applicable. Other information No (utper elevant information and the end of the end		roduct name: 2-Nitrobenzeneboronic
Auto graining: Not determined: Darger of epision: Product does not present an exploation hazard. Explosion: Initiats: Not determined Upper: Not determined Viscostin: Not determined Viscostin: Not applicable Other information Not future relevant information Information: Not future relevant information Coditions to avoid to information available. Not future relevant information Information: Not information Not applicable Coditions to avoid to information Not applicable Not applicable Coditions to avoid to information Not applicable Not applicable Coditions to avoid to information Not information Not inform	(Contd. of page 2)	
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10 Stability and reactivity Rescript No information known Chemical stability Stabie under recommended storage conditions. Thermal decomposition / conditions to be avoided. Decomposition will not occur if used and stored according to specifications. Cossility of hazdrous representations avoidable. Hazdrous references Hazdrous references Incompatible materials: Oxidizing agents References Stability and rescale of the stability		Viscosity: dynamic: N kinematic: N
Rescription Rescription Conditions to be avoided. Decomposition will not occur if used and stored according to specifications. Thermid decomposition / conditions to be avoided. Decomposition will not occur if used and stored according to specifications. Interview of the control of the contrul of the control of the		
Information on toxicological effects Acute toxicity: No effects known. Experimentation or corrosion: Causes serious eye irritation. Eye irritation or corrosion: Causes serious eye irritation. Eyer control toxicological effects known. Science and how effects known. Subacute to chronic toxicity: Subacute to chronic toxicity: Born affects the coefficits known. Subacute to chronic toxicity: Born affects the coefficits known. Subacute to chronic toxicity: Born affects the coefficits known. Subacute to chronic toxicity: Born affects the coefficits known. Subacute to chronic toxicity: Born affects the coefficits known. Subacute to chronic toxicity: Born affects the coefficits known. Subacute to chronic toxicity: Additional coxicological information: Toxicity: Additional coxicological information available. Additional ecological information available. </td <th>c specifications.</th> <td>Reactivity No information known. Chemical stability Stable under recomme Thermal decomposition / conditions to I Possibility of hazardous reactions No de Conditions to avoid No further relevant in Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide</td>	c specifications.	Reactivity No information known. Chemical stability Stable under recomme Thermal decomposition / conditions to I Possibility of hazardous reactions No de Conditions to avoid No further relevant in Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide
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. Mobility in soil No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Do not allow material to be released to the environment without proper governmental permits. Do not allow undivide 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: Disposal must be made according to official regulations. 14 Transport information Not a hazardous material for transportation. UN-Number DOT, MuBG, IATA None 17 Transport hazard class(es) DOT, ADR, MuBG, IATA None Packing group DOT, MuBG, IATA None Packing group DOT, MuBG, IATA None	ng and diarrhea, followed by profound shock and ce is not fully known.	Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for class Skin irritation or corrosion: Causes skin Eye irritation or corrosion: Causes seriou Sensitization: No sensitizing effects known Germ cell mutagenicity: No effects known Carcinogenicity: EPA-I: Data are inadequ Reproductive toxicity: No effects known. Specific target organ system toxicity - re Specific target organ system toxicity - re Specific target organ system toxicity - re Specific target organ system toxicity - su Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects I Subacute to chronic toxicity: Boron affects the central nervous system. coma. The temperature may become subn
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information: General notes: Do not allow undiluted product or large quantilies 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, IMDE, IATA None UN-Number DOT, IMDE, IATA None Transport hazard class(es) None DOT, IMDE, IATA None Transport hazard class(es) None DOT, IMDE, IATA None Packing group None		Toxicity Aquatic toxicity: No further relevant inform Persistence and degradability No further
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	(Contd. on page 4)	

