

Safety Data Sheet per OSHA HazCom 2012

Reviewed on 04/03/201
1 Identification
Product identifier Product name: SB 202190
Stock number: J60950
CAS Number: 152121-30-7 Relevant identified uses of the substance or mixture and uses advised against
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. 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
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GHS07
Signal word Warning Hazard statements H315 Causes skin irritation. H315 Causes serious eye irritation. H319 Causes respiratory irritation. H335 May cause respiratory irritation. H326 May cause respiratory irritation. H327 May cause respiratory 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 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 Maximum enterprint
D2B - Toxic material causing other toxic effects
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Classification system HMIS ratings (scale 0-4)
(Hazardouš Materials Identification System) Health Automation Automation
FIRE Flammability = 1 REACTIVITY 1 Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances
CAS# Description: 152121-30-7 4-(4-Fluorophenyl)-2-(4-hydroxyphenyl)-5-(4-pyridyl)-1H- imidazole
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 eve contact Rinse opened eve for several minutes under running water. Then consult a doctor.
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
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Product name: SB 202190

(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

 Fife-rightung 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

 Hydrogen fluoride (HF)

 Nitrogen oxides (NOx)

 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 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 Keep container tightly sealed. 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: Store in freezer (-20 °C). Information about storage in one common storage facility: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. 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. 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 Personal protective equipment 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 eyes and skin. Maintain an erropomically appropriate working environment 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 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

Control parameters

<i>y Physical and chemical properties</i>			
Information on basic physical and cl General Information Appearance:			
Form: Color:	Crystalline solid Yellow		
Odor:	Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous)	240-243 °C (464-469 °F) Not determined Not determined Not determined.		
		(Contd. on page 3)	

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Other information No fulther relevant information available. Stability and reactivity Reactivity No formation known. Charmed stability Stable under recommended storage conditions. Prescription No formation known. Charmed stability Stable under recommended storage conditions. Prescription No formation known. Conditions to avoid No further relevant information available. Doubling agents Doubling agents Doubling agents Named and the storage of the storage conditions. Prescription No for the storage of the storage conditions. Freed Toxicological information intoxide Prescription No data Information on toxicological effects Chemical Substances (RTECS) contains acute toxicity data for this substance. DUI Ed vicitity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. DUI Ed vicitity contains to construct of effects for the stability of toxic Effects of the storage contrains on analyzing effects from the correstruct. Sectific toxicity: Contains and the storage contrains on analyzing effects from the correstruct. Sectific trage organ system toxicity - repeated exposure: Not acuse requiratory intains. Sectific trage organ system toxicity - repeated exposure: Not acuse requiratory intains. Subscient to det of derated biolowing. Sectific trage organ system toxicity - repeated exposure: Not ecuse requinatory intains. <td></td>	
Reacting No information known. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Provide a stability Stabie under recommended storage conditions. Chocking and stability Stabie under several advances of the stability	
Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LCSO values that are relevant for classification: No data Skin Irritation or corrosion: Causes skin irritation. Segnitization: No sensitization data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No classification. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Ecological information Toxicity Aduatic toxicity: No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. There adverse effects no further relevant information available. There adverse	nation known. Stable under recommended storage conditions. sition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. rdous reactions Reacts with strong oxidizing agents d No further relevant information available. rials: position products:
Toxicity Aquaitic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Additional ecological information: Additional ecological information: Beeneral notes: Avoid transfer into the environment. Results of PBT and vPVB assessment PBT: Not applicable. Other adverse effects No further relevant information available. 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. Transport information UN-Number DOT, ADN, IMDG, IATA DOT, ADN, IMDG, IATA DOT, ADR, ADN, IMDG, IATA Not applicable Packing group DOT, IMD, IATA Not applicable Special precautions for user Not applicable.	Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. at are relevant for classification: No data prosion: Causes serious eye irritation. ensitizing effects known. icity: No effects known. o classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. ity: No effects known. an system toxicity - repeated exposure: No effects known. an system toxicity - single exposure: May cause respiratory irritation. No effects known. ito toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.
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. 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 Not applicable Packing group DOT, IMDG, IATA Not applicable Environmental hazards: Not applicable Environmental hazards: Not applicable. Special precautions for user Not applicable.	o further relevant information available. of an available. of the transmission available. further relevant information available. further relevant information available. cal information: i of transfer into the environment. d vPvB assessment i. e.
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Transport information UN-Number DOT, ADN, IMDG, IATA Not applicable UN proper shipping name DOT, ADN, IMDG, IATA Not applicable Transport hazard class(es) Not applicable Packing group DOT, IMDG, IATA Not applicable Environmental hazards: Not applicable Environmental hazards: Not applicable	
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Environmental hazards: Not applicable. Special precautions for user Not applicable.	
Special precautions for user Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	

Safety Data Sheet per OSHA HazCom 2012	Page 4/4 Printing date 11/24/2015 Reviewed on 04/03/2014
Product name: SB 202190	
	(Contd. of page 3)
Transport/Additional information:	
DOT Marine Bellutent (DOT)	
Marine Pollutant (DOT): No UN "Model Regulation": -	
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 Hazard pictograms	
GHS07 Signal word Warning	
Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H335 May cause respiratory 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 EYES: Rinse cautiously with water for several minutes. Remove co. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breath P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/i National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Co. to research and development only. This product must be used by or directly under the super product must not be used for commercial purposes or in formulations for commercial purpos This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity,	ntact lenses, if present and easy to do. Continue rinsing. hing. international regulations. ntrol Act Chemical Substance Inventory. Use of this product is restricted vision of a technically qualified individual as defined by TSCA. This es. Non-Domestic Substances List (NDSL). Non-Domestic Substance is not listed. n (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered b information to ensure proper use and protect the health and safety of employees. This infori conformance with this Material Safety Data Sheet, or in combination with any other product of	mation is furnished without warranty, and any 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 I 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) LCSD: Lethal concentration, 50 percent	nternational Carriage of Dangerous Goods by Road)

USA

WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPW: 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)