

Safety Data Sheet per OSHA HazCom 2012

	Reviewed off 09/02/2011
1	Identification Product identifier Product name: 9,9-Di-n-octylfluorene-2,7-diboronic acid bis(pinacol) ester
	Stock number: H51955 CAS Number: 196207-58-6
	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: 800-322-4757
	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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.
	Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH Q Health (acute effects) = 0 Flammability = 0 READTIVIC Physical Hazard = 0
	Other hazards         Results of PBT and vPvB assessment         PBT: Not applicable.         vPvB: Not applicable.
3	Composition/information on ingredients
	Chemical characterization: Substances CAS# Description: 196207-58-6 9,9-Di-n-octylfluorene-2,7-diboronic acid bis(pinacol) ester
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.         Information for doctor         Most important symptoms and effects, both acute and delayed 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 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: Pick up mechanically. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling

See Section 7 for information on safe handling

## Product name: 9,9-Di-n-octylfluorene-2,7-diboronic acid bis(pinacol) ester

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See Section 8 for information on persona See Section 13 for disposal information.	l protection equipment.	(Contd. of page 1)
Conditions for safe storage, including Storage Requirements to be met by storerooms	explosions and fires: No information known. any incompatibilities s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. ditions:	
8 Exposure controls/personal protect Additional information about design of Properly operating chemical fume hood d		
Control parameters Components with limit values that requestion Additional information: No data	uire monitoring at the workplace: Not required.	
Protection of hands: Impervious gloves	Indling chemicals should be followed. nd feed. hing immediately. d of work. orking environment. birator when high concentrations are present. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. <b>ninutes)</b> Not determined	
9 Physical and chemical properties	<u> </u>	
Information on basic physical and che General Information Appearance: Form: Color:	<b>mical properties</b> Solid Light brown Not determined	
Odor threshold:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not applicable. Not determined Not determined Not determined Not determined Not determined Not determined Not determined	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	Product does not present an explosion hazard. Not determined Not applicable. Not determined Not determined Not determined. Not applicable. Not determined Not determined. Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity		
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No o Conditions to avoid No further relevant Incompatible materials: Oxidizing agent Hazardous decomposition products: Carbon monoxide and carbon dioxide Boron oxide	nended storage conditions. • <b>be avoided</b> : Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available. ts	USA –

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Toticity Aguade Code/ty: No further relevant information available.           Persistence and degradability to further relevant information available.           Mobility in Soft No turber relevant information available.           Mobility in Soft No turber relevant information available.           Additional acclogical information:           Do not allow undited product or large quantities to reach ground water, water course or sawage system.           Do not allow undited product or large quantities to reach ground water, water course or sawage system.           Results of PET and YVPB assessment PET: Not applicable.           Other adverse effects No further relevant information available.           13 Disposal considerations           Waste treatment methods Recommendation Check state, local or national regulations.           14 Transport Information Waste treatment methods           19 Transport Information Dor, MIND, MARK and Dark and D	turther relevant information available. radability No further relevant information available. radability No further relevant information available. ther relevant information available. ther relevant information available. ther relevant information available. relevant information relevant relevant information available. relevant
Waste treatment methods           Recommendation Coust is state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.           14 Transport information Not a hazardous material for transportation.         None           UN proper shipping name DOT, IMDG, IATA         None           DOT, ADD, IATA         None           DOT, ADD, IATA         None           DOT, MDG, IATA         None           DOT, MDG, IATA         None           Packing group DOT, MDG, IATA         None           Packing group DOT, MDG, IATA         None           Packing group DOT, MDG, IATA         None           Special precautions for user         Not applicable.           Special precautions for user         Not applicable.           Transport/Additional information:         Not dangerous according to the above specifications.           DOT         Mot dangerous according to the above specifications.           DOT         Not dangerous according to the above specifications.           DOT         Mot dangerous according to the above specifications.	thods         insuit state, local or national regulations to ensure proper disposal.         gs:         isposal must be made according to official regulations.         tion         rial for transportation.         name         None         name         None         tss(es)         TA         None         code         None         tss(es)         TA         None         code         None         tss(es)         TA         None         tss(es)         tss(es)         tsst(es)         tss(es)
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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.	sed for commercial purposes or in formulations for commercial purposes. specific toxic chemical listings) Substance is not listed. In 65 known to cause cancer Substance is not listed. Intal toxicity, Substance is not listed. Intal toxicity, female Substance is not listed. Initation of use: For use only by technically qualified individuals. Initations and prohibitive regulations igh Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Istrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the t be observed. ACH Regulations (requiring Authorisation for use) Substance is not listed.

## Product name: 9,9-Di-n-octylfluorene-2,7-diboronic acid bis(pinacol) ester

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USA

## 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:

RID: Réglement international Civil Aviation Organization
IMDs: International Civil Aviation Organization
IMDs: International Anitime Code for Dangerous Goods
DOT: US Department of Transportation
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (USA)
WHIMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
USD: Lethal concentration, 50 percent
USD: VP Persistent and very Bioaccumulative
ACGIH: American Chemical Hugienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
HTP: National Toxicology Program (USA)
ACG. International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)