





Product name: 1,1'-Di-n-octadecyl-3,3,3',3'-tetramethylindocarbocyanine perchlorate

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Information for doctor	(Contd. of page	
Most important symptoms and effect	s, both acute and delayed No further relevant information available.	
	attention and special freatment needed No further relevant information available.	
5 Fire-fighting measures		
Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture Illowing can be released:	
Hydrogen chloride (HCl) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.		
6 Accidental release measures		
Personal precautions, protective equ Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not al Methods and material for containmer Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person	otected persons away. The fourth of any water course. Iow product to reach sewage system or any water course. In and cleaning up: Ensure adequate ventilation. I special measures required. andling	
See Section 13 for disposal information.		
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed.		
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known.		
Conditions for safe storage, including 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.		
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: 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 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 ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.		
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 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 gloves not only Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work cloth	minutes) Not determined	
9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance:		
Form: Color:	Powder Purple	
Odor: Odor: Odor threshold:	Not determined	
pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range:	68 °C (154 °F) (dec)	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined	
	(Contd. on page US/	

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Safety Data Sheet per OSHA HazCom 2012

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	(Contd. of page 3)		
Transport/Additional information:			
DOT Marine Pollutant (DOT): No			
UN "Model Regulation": -			
15 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			
Hazaro statements H315 Causes skin irritation. H319 Causes serious eye irritation. H325 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 P304+P340 P405 Store locked up. P405 Store locked up. P501 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 Substate to research and development only. This product must be used by or directly under the supervision of a technically qua 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 (DSL) or the Canadian Non-Domestic Substance SARA Section 313 (specific toxic chemical listings) 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.	nce Inventory. Use of this product is restricted lified individual as defined by TSCA. This		
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance i The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (RE 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.	s not listed. ACH) for the manufacturing, placing on the		
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make information to ensure proper use and protect the health and safety of employees. This information is furnished withou conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the response	t 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 europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous 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 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)	s Goods by Road)		

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