

Safety Data Sheet

Revision date 01/2//2017 Revision date 01/2//2017
1 Identification Product identifier Product name: Fluorescein isothiocyanate
Stock number: L09319 CAS Number:
3326-32-7 EC number: 222-042-0 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:
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)
GHS08 Health hazard
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction. Hazards not otherwise classified No information known.
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
GHS08
Signal word Danger Hazard statements H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. Precautionary statements P260 Do not breathe dust/fume/cas/mist/vapours/spray.
Hazard statements H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER or doctor/physician. WHMIS classification
D2A - Very toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH 2 FIRE 1 REACTIVITY 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: 3326-32-7 Fluorescein isothiocyanate Concentration: ≤100% Identification number(s): EC number: 222-042-0
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.
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Product name: Fluorescein isothiocyanate			
	After skin contact	(Contd. of page 1)	
	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		
	Information for doctor Most important symptoms and effects, both acute and delayed May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.		
	indication of any immediate medical attention and special treatment needed No further relevant information available.		
	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 Sulfur oxides (SOX) Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.		
	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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. 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 Handle under dry protective gas. Keep container tightly sealed. Ensure good ventilation at the workplace. Prevent formation of dust. 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: Refrigerate Information about storage in one common storage facility:		
	Protect from heat. Store away from water/moisture. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive.		
	Keep container tightly sealed. Protect from humidity and water. Refrigerate Specific end use(s) No further relevant information available.		
	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. 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 det 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.	ermine if air-	

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. **Material of gloves** Nitrile rubber, NBR **Penetration time of glove material (in minutes)** 480 **Glove thickness** 0.11 mm **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

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9 Physical and chemical properties				
Information on basic physical and che General Information Appearance:				
Form: Odor:	Powder Not determined			
Odor threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Bolling point/Bolling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature:	>360 °C (>680 °F) Not determined Not determined Not determined. Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined Not determined			
Danger of explosion: Explosion limits: Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density:	Not determined			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate	Not applicable.			
Solubility in / Miscibility with Water:	Insoluble			
Partition coefficient (n-octanol/water):	Not determined.			
Viscosity: dynamic:	Not applicable.			
kinematic:	Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Water/moisture Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOX) Nitrogen oxides				
11 Toxicological information Information on toxicological effects Agust toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains south toxicity data for this substance				
Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Germ cell mutagenicity: No effects known. Carcinogenicity: 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 - single exposure: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical 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.				
Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.				
12 Ecological information 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. Additional ecological information: General notes: 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	r national regulations to ensure proper disposal.	(Contd on page 4)		
		(Contd. on page 4)		

Product name: Fluorescein isothiocyanate

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	(Contd. of page 3)			
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 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.			
Transport in burk according to Annex if of MARPOL73778 and the IBC Code Transport/Additional information:				
DOT	A1-			
Marine Pollutant (DOT): UN "Model Regulation":	No			
v v				
 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 Construction of the substance of the substance of the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Construction of the substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity, male Substance is not listed. Prop 65 - Obvelopmental toxicity and prohibitive regulations Substance is not listed. Substance is not listed. Annex XIV of the REACH Regulations and prohibitive fault to the substance is not listed. Chemical Safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other informatio				
Employers should use this information only as a supplement to other information	n gathered by them, and should make independent judgement of suitability of this s. This information is furnished without warranty, and any use of the product not in uct or process, is the responsibility of the user. concerning the International Carriage of Dangerous Goods by Road) USA			