

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: Fluorescein amine isomer I Stock number: J62175 **CAS Number:** 3326-34-9 EC number: 2-043-6 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. Inerrito Fisher Scheman C. 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 Acute Tox. 4 H302 Harmful if swallowed. 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 ! GHS07 Signal word Warning Hazard statements H302 Harmful if swallowed. 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. 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. Store locked up. P405 D50 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects T Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 2 Flammability = 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: 3326-34-9 Fluorescein amine isomer I Identification number(s): EC number: 222-043-6 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.

Product name: Fluorescein amine isomer I

(Contd. of page 1) 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. Indication of any immediate medical attention and special treatment needed 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 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. 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: Refrigerate 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. Refrigerate 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 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. **Recommended filter device for short term use:** Use a respirator with type P100 (USA) or P3 (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 glove material (in minutes)** Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Dark red to brown Color: Odor: Not determined (Contd. on page 3)

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Product name: Fluorescein amine is	somer I	
		(Contd. of page 2)
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	223 °C (433 °F) (dec)	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	I
Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water):	Not determined): Not determined.	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
and the second second		i
10 Stability and reactivity Reactivity No information known.		
Possibility of hazardous reactions Rea Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	to be avoided: Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents nt information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	kin irritation. prous eye irritation. hown. hown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. • repeated exposure: No effects known. • - single exposure: May cause respiratory irritation.	
		i
Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	ther relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. nt	
Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods	or national regulations to ensure proper disposal. nade accordina to official reaulations.	
· ·		
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
DOT, ADN, IMDG, IATA	Not applicable	
		(Contd. on page 4)

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oduct name: Fluorescein amine isomer I	
	(Contd. of page
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	Not applicable.
Transport in bulk according to Annex II of MARPOL7	'3/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	
5 Regulatory information	
Safety, health and environmental regulations/legislat	tion specific for the substance or mixture
GHS label elements The product is classified and labele	ed in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms	
\wedge	
GHS07	
Signal word Warning Hazard statements	
H302 Harmful if swallowed.	
H315 Causes skin irritation.	
H319 Causes serious eve irritation.	
H335 May cause respiratory irritation. Precautionary statements	
Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/va	apours/spray.
P280 Wear protective gloves/protective clot	apour spirate thing/eye protection/face protection. ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305+P351+P338 IF IN EYES: Rinse cautiously with wa	iter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh P405 Store locked up.	h air and keep comfortable for breathing.
P501 Dispose of contents/container in acco	ordance with local/regional/national/international regulations.
National regulations	
All components of this product are listed in the U.S. Envil	ironmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
All components of this product are listed on the Canadian SARA Section 313 (specific toxic chemical listings) S California Proposition 65	n Nor-Donesic Substances List (NDSL). Substance is not listed.
California Proposition 65	
Prop 65 - Chemicals known to cause cancer Substance	ce is not listed.
Prop 65 - Developmental toxicity Substance is not liste	20. s not listed
Prop 65 - Developmental toxicity, remaie Substance is n	or listed.
Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is Prop 65 - Developmental toxicity, male Substance is n Information about limitation of use: For use only by te	chnically qualified individuals.
Other regulations, limitations and prohibitive regulat	to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 7 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
Substance of very High Concern (SVHC) according to The conditions of restrictions according to Article 67	to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 7 and Anney XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on th
market and use must be observed.	
Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Auth Chemical safety assessment: A Chemical Safety Asse	horisation for use) Substance is not listed.
Onemical Safety assessment. A Onemical Safety Asse	
6 Other information	
Employers should use this information only as a supplem	nent to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not in
Information to ensure proper use and protect the health a conformance with this Material Safety Data Sheet, or in c	and safety of employees. This information is furnished without warranty, and any use of the product not in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Departmen Date of preparation / last revision 11/23/2015 / -	
Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Socie HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UPVB: 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 (USA)	ar Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
EINECS: European Inventory of Existing Commercial Chemical Substances	S of the second s
HMIS: Hazardous Materials Identification System (USA)	лу)
WHMIS: Workplace Hazardous Materials Information System (Canada)	
LOSo: Lethal dose, 50 percent	
VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hvaienists (USA))
OSHA: Occupational Safety and Health Administration (USA)	
IARC: International Agency for Research on Cancer	
LEA. LIVIUIIIIEIIII FIUEUUUI AUEIUV (USA)	

IARC: International Agency for Research on Ca EPA: Environmental Protection Agency (USA)

USA