



1 Identification Product identifier Product name: L-5-Hydroxytryptophan Stock number: A13954, L14168 **CAS Number:** 4350-09-8 EC number: 224-411-1 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. 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. Precautionary statements P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell. P330 Rinse mouth. P50 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D1B - Toxic material causing immediate and serious toxic effects 1 Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 2 Health (acute effects) = 21 

 Image: Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 4350-09-8 L-5-Hydroxytryptophan Identification number(s): EC number: 224-411-1 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 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 Meet important symptoms and effects, both acute and delayed No further relevant information av Most important symptoms and effects, both acute and delayed No further relevant information available.

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Product name: L-5-Hydroxytryptopl	han		
Indication of any immediate medical	attention and special treatment needed No further relevant information available.	(Contd. of page 1)	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbor Special hazards arising from the sub- If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. <b>stance or mixture</b> Illowing can be released:		
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. 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. 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 any incompatibilities 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. 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: Not required. Additional information: No data			
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. 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. Eye protection: Safety glasses Body protection: Protective work clothing.			
9 Physical and chemical properties	5		
Information on basic physical and ch General Information	emical properties		
Appearance: Form: Color:	Powder Off-white		
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	270 °C (518 °F) (dec) Not determined Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined. Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits: Lower:	Not determined	(Contd. on page 3)	
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Product name: L-5-Hydroxytryptopha	an	
Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): I Viscosity:	Not determined Not applicable. Not determined Not determined. Not applicable. Not determined Not determined. Not determined. Not applicable. Not applicable. No further relevant information available.	(Contd. of page 2)
Reactivity No information known	information available.	
Reproductive foxicity: No effects known Specific target organ system toxicity - Aspiration hazard: No effects known. Other information (about experimental Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Behavioral - somnolence (general depress Behavioral - excitement. Behavioral - etaxia. Behavioral - tremor. Behavioral - termor. Behavioral - termor. Behavioral - convulsions or effect on seizt Sense Organs and Special Senses (Eye) Kidney, Ureter, Bladder - other changes. Kidney, Ureter, Bladder - other changes. Related to Chronic Data - changes in test. Nutritional and Gross Metabolic - weight I Reproductive - Effects on Embryo or Fetu Reproductive - Effects on Embryo or Fetu Reproductive - Specific Developmental Al Reproductive - Specific Developmental Al	in and mucous membranes. ct. wn. wn. expected exposure: No effects known. single exposure: No effects known. toxicology): Reproductive effects have been observed on tests with laboratory animals. 'Substances (RTECS) reports the following effects in laboratory animals: sed activity). ure threshold. - lacrimation. der weight.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No further Bioaccumulative potential No further rel Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow material to be released to the Do not allow undiluted product or large qu Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	er relevant information available. levant information available. nation available. e environment without proper governmental permits. nantities to reach ground water, water course or sewage system.	
13 Disposal considerations		
Waste treatment methods	national regulations to ensure proper disposal. de according to official regulations.	USA

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14 Transport information			
UN-Number			
DOT, TIMDĞ, IATA UN proper shipping name	UN2811		
DOT IMDG, IATA	Toxic solids, organic, n.o.s. (L-5-Hydroxytryptophan) TOXIC SOLID, ORGANIC, N.O.S. (L-5-Hydroxytryptophan)		
Transport hazard class(es)			
DOT			
1 and			
Class Label	6.1 Toxic substances. 6.1		
Class	6.1 (T2) Toxic substances 6.1		
Label IMDG, IATA	0.1		
×			
Class Label	6.1 Toxic substances. 6.1		
	0.1		
Packing group DOT, IMDG, IATA			
Environmental hazards: Special precautions for user	Not applicable. Warning: Toxic substances		
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and			
Transport/Additional information:			
DOT			
Marine Pollutant (DOT): UN "Model Regulation":	No UN2811, Toxic solids, organic, n.o.s. (L-5-Hydroxytryptophan), 6.1, III		
Hazard pictograms			
<ul> <li>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.     </li> <li>Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / Abbreviations and acronyms:         ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)     IMDG: International Maritime Code for Dangerous Goods     DOT: US Department of Transportation     IATA: International Internation of the American Chemical Substances     CAS: Chemical Abstracts Service (division of the American Chemical Substances)     CAS: Chemical Abstracts Soft percent     USA     WHMIS: Hazardous Materials Information System (Canada)     LC50: Lethal concentration, 50 percent     VPVB: very Persistent and very Bioaccumulative     VPVB: very Persistent and very Bioaccumulative     ACGIH: American Conference of Governmental Industrial Hygienists (USA)     (Contd. on page 5)</li></ul>			
OSHA: Occupational Safety and Health Administration (USA)	(Contd. on page 5)		
	USA		

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NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Page 5/5 Printing date 11/23/2015 Reviewed on 05/07/2007

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