



1 Identification	
Product identifier	
Product name: 1,2,3,4-Tetrahydro-9H-pyrido[3,4-b]indole	
Stock number: H26653 CAS Number:	
16502-01-5	
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: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department	
Emergency telephone number: Call Carechem 24 at +44 (0) 1865 407333	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0	0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
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	
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
\wedge	
GHS07	
Signal word Warning	
Hazard statements H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
H335 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 easy to do. Continue rinsing	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing	<i>ą.</i>
P304+P340 IF INHALED: Remove person to tresh air and keep comfortable for breathing. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects	
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Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1	
Flammability = 1	
REACTIVITY Physical Házard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable.	
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3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
16502-01-5 1,2,3,4-Tetrahydro-9H-pyrido[3,4-b]indole	
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.	
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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	Contribution
	(Contd. on page 2)

Product name: 1,2,3,4-Tetrahydro-9H-pyrido[3,4-b]indole (Contd. of page 1) 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: 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. 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 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: Not required. 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. 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: Color: Powder Light brown Not determined Odor: Odor threshold: Not determined pH-value: Not applicable Change in condition 206-208 °C (403-406 °F) Not determined Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined.

Not determined Not determined

(Contd. on page 3)

Product name: 1,2,3,4-Tetrahydro-9H-pyrido[3,4-b]indole

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Product name: 1,2,3,4-Tetrahydro-9	H-pyrido[3,4-b]indole	
		(Contd. of page 2)
Auto igniting:	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)	Product does not present an explosion hazard. Not determined Not applicable. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not determined Not determined. Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions N. Conditions to avoid No further relevar Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	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 effe	kin irritation. erious eye irritation. hown. aown. 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.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No fun Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relev	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	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transporta	tion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)	None	
DOT, ADR, IMDG, IATA	N/	
Class Packing group	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards: Special precautions for user	Not applicable. Not applicable.	
	x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
		(Contd. on page 4)

Product name: 1,2,3,4-Tetrahydro-9H-pyrido[3,4-b]indole (Contd. of page		
DOT		
Marine Pollutant (DOT):	No	
Regulatory information		
Safety, health and environmental regulat GHS label elements The product is classifi Hazard pictograms	<i>tions/legislation specific for the substance or mixture</i> fied and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
P280 Wear protective gloves/	me/gas/mist/vapours/spray. /protective_clothing/eye_protection/face_protection.	
P305+P351+P338 IF IN EYES: Rinse cauti P304+P340 IF INHALED: Remove p P405 Store locked up.	iously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. erson to fresh air and keep comfortable for breathing.	
	ntainer in accordance with local/regional/national/international regulations.	
This product is not listed in the U.S. Environ to research and development only. This pro	nmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric oduct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This urposes or in formulations for commercial purposes. cal listings) Substance is not listed.	
Prop 65 - Chemicals known to cause car Prop 65 - Developmental toxicity Substar Prop 65 - Developmental toxicity, female Prop 65 - Developmental toxicity, male S	nce is not listed. 9 Substance is not listed.	
nformation about limitation of use For u	use only by technically qualified individuals. bitive regulations) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.	
Substance of Very High Concern (SVHC) The conditions of restrictions according market and use must be observed. Substance is not listed.) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on	
Annex XIV of the REACH Regulations (re	equiring Authorisation for use) Substance is not listed. I Safety Assessment has not been carried out.	
information to ensure proper use and protect	r as a supplement to other information gathered by them, and should make independent judgement of suitability of this ct the health and safety of employees. This information is furnished without warranty, and any use of the product not i Sheet, or in combination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketir Date of preparation / last revision 11/24/2 Abbreviations and acronyms: MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association (ATA: International Air Transport Association (AS: Chemical Abstract Service (division of the Amorica		
MS: Hazardous Materials Identification System (USA) VHMIS: Workplace Hazardous Materials Information Sys C50: Lethal concentration, 50 percent	ar Grennical Society) stem (Canada)	
LDSI: Letinal dose, 50 percent PVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial SSHA: Occupational Safety and Health Administration (U VTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	l Hygienists (USA) ISA)	