

Safety Data Sheet per OSHA HazCom 2012

Reviewed on 04/27	/2018
1 Identification Product identifier	
Product name: D-Proline ethyl ester hydrochloride	
Stock number: H64910 CAS Number: 131477-20-8	
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 Theme Science Scientific Chemicals, Inc.	
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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable Hazard pictograms Not applicable	
Signal word Not applicable Hazard statements Not applicable WHMS classification Not controlled	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE Flammability = 1 REACTIVITI 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: 131477-20-8 D-Proline ethyl ester hydrochloride	
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. 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) Hydrogen chloride (HCl) Advice for firefjahters	
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 product to reach sewage system or any water course.	
Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: No special measures required. Reference to other sections	
See Section 7 for information on safe handling (Contd. on p	age 2
	USA –

Product name: D-Proline ethyl ester	hydrochloride	
See Section 8 for information on persona See Section 13 for disposal information.	l protection equipment.	(Contd. of page 1)
Conditions for safe storage, including Storage	explosions and fires: No information known. any incompatibilities s and receptacles: Store in freezer (-20 °C). mon storage facility:	
8 Exposure controls/personal prote Additional information about design on Properly operating chemical fume hood of Control parameters Components with limit values that req The product does not contain any relevan Additional information: No data Exposure controls Personal protective equipment General protective equipment General protective and hygienic meas. The usual precautionary measures for ha Keep away from foodstuffs, beverages an Remove all soiled and contaminated clot. Wash hands before breaks and at the en Maintain an ergonomically appropriate with Breathing equipment: Use suitable resp Recommended filter device for short to Use a respirator with organic vapor/acid of respirators are appropriate. Only use equipment: Impervious gloves	ction f technical systems: lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per min uire monitoring at the workplace: at quantities of materials with critical values that have to be monitored at the workplace. ures indling chemicals should be followed. at feed. hing immediately. d of work. orking environment. birator when high concentrations are present. erm use: gas cartridges as a backup to engineering controls. Risk assessment should be performed to dete uipment tested and approved under appropriate government standards such as NIOSH (USA) or C	ermine if air-purifying CEN (EU).
Eye protection: Safety glasses Body protection: Protective work clothin	e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. ng.	
Odor:	mical properties Liquid Pale yellow Not determined Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined. Not determined Not determined Not determined. Not determined. 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): Viscosity: dynamic: kinematic:	Not determined. Not determined Not determined Not determined Not determined Not determined. Not determined.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm	nended storage conditions. • be avoided: Decomposition will not occur if used and stored according to specifications. • cts with strong oxidizing agents	(Contd. on page 3)

Product name: D-Proline ethyl ester hydrochloride

(Contd. of page 2)

If Toxicological information Information on toxicological effects Advert Exciting Vis elifeds inform for classification: No data Skin initiation or corrosion: May cause initiation Eye initiation or corrosion: May cause initiation Garchogenicity: No effects known. Garchogenicity: No effects known. Schiption of corrosion: Noticity - sepated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Appendic target organ system toxicity - sepated exposure: No effects known. Appendic target organ system toxicity - sepated exposure: No effects known. Appendic target organ system toxicity - sepated exposure: No effects known. Additional toxicological information. Toxicity Toxicity Toxicity Cological information. Toxicity Toxicity Toxicity Cological information. Broaccumulative potential No further relevant information available. Broaccumulative potential No further relevant information available. General notes: Broaccumulative potential No further relevant information available. General notes: Broat alow unduladed producus on avalilable. Gen	Nitrogen oxides Hydrogen chloride (HCI)		(Contd. of page 2)
Tracing Aussic Excisions and Vegraduality Via Unifer relevant information available. Presistance and Vegraduality Via Unifer relevant information available. Presistance and Vegraduality Via Unifer relevant information available. Mobility in soft bio Uniter relevant information available. Additional according information: Do not allow undulated product or large quantities to reach ground water, water course or sewage system. Additional according to the previous end of the system of the	Acute toxicity: No effects known. 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: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.	effects known. fects known.	ЭIH.
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleared packagings: Recommendation: Disposal must be made according to official regulations. 11 Transport Information UN-timeter UN-timeter UN-timeter DOT, ADN, IMDG, LATA Not applicable DOT, ADN, IMDG, IATA Not applicable Transport Information DOT, ADN, IMDG, IATA Not applicable Transport Information DOT, ADN, IMDG, IATA Ors, ADN, IMDG, IATA Ors, ADN, IMDG, IATA DOT, IMDS, IATA Packing group DOT, IMDS, IATA Special precautions for user Not applicable Environmental hazards: Not applicable. Transport Information: DOT Model Regulation*: UN * Woole Regulation*: UN * Woole Regulation*: OT Model Regulation*: - Stepsy health and environmental regulations/legislation specific for the substance or mixture Synal wool Regulation*: This product is not listed in the U.S. Environmen	Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information av Bioaccumulative potential No further relevant information availab Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	ble.	
UN-Number Not applicable UN proper shipping name Not applicable DOT, ADN, IMDG, IATA Not applicable Transport hazard class(es) DoT, ADN, MDG, IATA Class Not applicable Packing group Not applicable DOT, MDG, IATA Not applicable Packing group Not applicable DoT, MDG, IATA Not applicable Environmental hazards: Not applicable. Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Model Regulation*: - IDOT Model Regulation*: - IDOT No UN "Model Regulation*: IS Regulatory information - - Safety, health and environmental regulations/legislation specific for the substance or mixture GHS is abol elements? Not applicable National regulations Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is setsic statements Not applicable National regulations This product is not listed in the U.S. Env	Recommendation Consult state, local or national regulations to e Uncleaned packagings:		
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	Annex XIV of the REACH Regulations (requiring Authorisation	1 tor use) Substance is not listed.	(Contd. on page 4)

Product name: D-Proline ethyl ester hydrochloride

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - 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) DOT: US Department of Transportation Of Transportation Of Transportation System (USA) WHMIS: Hazardous Materials Identification System (USA) USSO: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSTA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 3)

USA