

Safety Data Sheet per OSHA HazCom 2012

Reviewed on U//	05/2011
1 Identification	
Product identifier	
Product name: 1-Methylpyrrole-2-carboxaldehyde	
Stock number: L01780 CAS Number:	
1192-58-1 EC number:	
214-755-0 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 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	I
GHS07	
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation.	
H227 Combustible liquid. 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 H227 Combustible liquid.	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 Gause respiratory irritation. Precautionary statements	
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
P261 Avoid breáthing 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.	
P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
B3 - Combustible liquid D2B - Toxic material causing other toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
FIRE Flammability = 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:	
1192-58-1 1-Methylpyrrole-2-carboxaldehyde Identification number(s):	
EC number: 214-755-Ò ´	USA

(Contd. on page 2)

I

Product name: 1-Methylpyrrole-2-carboxaldehyde	
	(Contd. of page 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 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 CO2, extinguishing powder or water spray. Fight larger fire with 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) Possibly Hydrogen cyanide (HCN) 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. 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 lightly sealed. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Keep ignition sources away. 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: Do not store together with strongly basic or oxidizing materials. Store away from air. Store in the dark. Protect from heat. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. Avoid contact with air/oxygen. Keep container tightly sealed. Protect from exposure to light. 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 minu 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 solied 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. Eye protection: Safety glasses 	tte. (Contd. on page 3)

Product name: 1-Methylpyrrole-2-carboxaldehyde

Body protection: Protective work clothing.

(Contd. of page 2)

Body protection: Protective work clothin	ng.	(00mai 0. pago 2)			
9 Physical and chemical properties					
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:					
pH-value:	Not determined.				
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 192-194 °C (378-381 °F) Not determined				
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	72 °C (162 °F) Not applicable. Not determined Not determined Not determined.				
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity:	Product does not present an explosion hazard. Not determined Not determined 1.016 g/cm³ (8.479 lbs/gal) Not determined. Not determined. Not determined. Not determined.				
dynamic: kinematic: Other information	Not determined. Not determined. 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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Bases Air Heat Light Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Possibly Hydrogen cyanide (HCN)					
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.					
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforr Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable.	er relevant information available. elevant information available. mation available. ne environment without proper governmental permits. mantities to reach ground water, water course or sewage system.				

PBT: Not applicable. **vPvB**: Not applicable. **Other adverse effects** No further relevant information available.

Product name: 1-Methylpyrrole-2-carboxaldehyde

(Contd. of page 3)

13 Disposal considerations

Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

14 Transport information Not a hazardous material for transportation.				
UN-Number DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA	None			
Transport hazard class(es)				
DOT, ADR, IMDG, IATA Class	None			
Packing group DOT, IMDG, IATA	None			
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:	Not dangerous according to the above specifications.			
DOT Marine Pollutant (DOT):	No			

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

1

GHS07	
Signal word Warning Hazard statements Hazard statements H22 C Combustible liquid. H319 Causes skini irritation. H319 Causes serious eve irritation. H319 Causes serious eve irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breakting dust/tume/gas/mist/vapours/spray. P305-P351+P338 IFI NEYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. All components of this product is not listed on the Canadian Domestic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product nust be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product nust be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental t	
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. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Ari Transport Association" (IATA) (CAO: International Concinnational Civil Aviation Organization ICAO: The Technical Instructions by the "International Civil Aviation Organization" (IATA) (CAO: International Maritime Code for Dangerous Goods by Rail) IDG: Concentrational Civil Aviation Organization" (IACAO) IDG: International Admittime Code for Dangerous Goods DOT: US Department of Transport Association ENREQUE Association ENREQUE Association ENREQUE Association ENREQUE Association ENREQUE Association CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Che	_
(Contd. on page 5 USA	<i>J</i>

Product name: 1-Methylpyrrole-2-carboxaldehyde

OSHA: Occupational Safety and Health Administration (USA) 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 07/05/2011

(Contd. of page 4)

USA -