

Safety Data Sheet per OSHA HazCom 2012

Reviewed on 07/22/2014
1 Identification
Product identifier Product name: <b>5-Formyl-2,4-dimethylpyrrole-3-carboxylic acid</b>
Stock number: H63711
CAS Number: 253870-02-9
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: 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
Skin Irrit. 2 H315 Causes skin irritation.
Eve Irrit. 2A H319 Causes serious eve 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
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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.
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.
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)
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1
REACTIVITY⊡ Physical Házard = 1
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances
<b>CAS# Description:</b> 253870-02-9 5-Formyl-2,4-dimethylpyrrole-3-carboxylic acid
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. (Contd. on page 2)
(Contraction page 2) USA

## Product name: 5-FormyI-2,4-dimethylpyrrole-3-carboxylic acid

Not determined.

Danger of explosion:

Product name: 5-Formyl-2,4-dimethy	/ipyrrole-3-carboxylic acid	
Information for doctor Most important symptoms and effects Indication of any immediate medical a	s, both acute and delayed No further relevant information available. Attention and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the fol Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture lowing can be released:	
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unpro- Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.	tected persons away. The sevage system or any water course. t and cleaning up: Ensure adequate ventilation. special measures required. Indling	
Conditions for safe storage, including Storage Requirements to be met by storeroon	explosions and fires: No information known. any incompatibilities ans and receptacles: No special requirements. amon storage facility: Store away from oxidizing agents. anditions: and containers.	
Control parameters Components with limit values that rec The product does not contain any releva	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Protection of hands: Impervious gloves	andling chemicals should be followed. and feed. thing immediately. not of work. pirator when high concentrations are present. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. <b>minutes)</b> Not determined	
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance:	emical properties	
Form: Odor: Odor threshold:	Solid Not determined Not determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined	
Danger of explosion:	Not determined.	

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/ / /	/Ipyrrole-3-carboxylic acid	
		(Contd. of page 2
Explosion limits: Lower:	Not determined	
Upper:	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	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.	nended storage conditions	
Thermal decomposition / conditions t	nended storage conditions. <b>o be avoided:</b> Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re Conditions to avoid No further relevant	acts with strong oxidizing agents information available	
Incompatible materials: Oxidizing ager	ts	
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.		
LD/LC50 values that are relevant for on Skin irritation or corrosion: Causes skin irritation or corrosion: Causes skin skin statistical s		
Eye irritation or corrosion: Causes set	ious eye irritation.	
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	WD.	
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	n. reneated exposure: No effects known	
Specific target organ system toxicity	repeated exposure: No effects known. • single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec		
Additional toxicological information:	Fo 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 inf	ormation available.	
Persistence and degradability No furth Bioaccumulative potential No further r	er relevant information available.	
Mobility in soil No further relevant infor	nation available.	
Additiónal ecological information: General notes:		
Do not allow undiluted product or large of	uantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessment		
<b>PBT:</b> Not applicable.		
vPvB: Not applicable. Other adverse effects No further releva	nt information available	
13 Disposal considerations		
Waste treatment methods	r national regulations to ensure proper disposal.	
Uncleaned packagings:	<b>o i i i</b>	
Recommendation: Disposal must be m	ade according to official regulations.	
14 Transport information		
UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
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.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	Νο	
UN "Model Regulation":		
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USA (Contd. on page 4) ľ

## Product name: 5-FormyI-2,4-dimethylpyrrole-3-carboxylic acid

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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	
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+P388 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.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
National regulations' This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TS product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).	uct is restricted SCA. This
SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.	
Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations	
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, p market and use must be observed. Substance is not listed.	lacing on the
Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
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16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suital information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the pro- 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 11/24/2015 / - Abbreviations and acronyms: APP: Accord européen sur la transport des marchandises denorruses par Route (European Agreement concerning the International Carriage of Departures Goods by Road)	
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 CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent	
WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UD50: Lethal dose, 50 percent VPVB: 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 for Research on Cancer EPA: Environmental Protection Agency (USA)	
EPA: Environmental Protection Agency (USA)	USA -
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