

1 Identification Product identifier



Product name: Di(2-pyridyl) ketone Stock number: H55322 CAS Number: 19437-26-4 EC number: 243-067-3 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 Details of the supplier of the safety da 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 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. 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 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

 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.

 P304+P340
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

 P362
 Take off contaminated clothing and wash before reuse.

 P321
 Specific treatment (see on this label).

 P342+P313
 If skin irritation occurs: Get medical advice/attention.

 P405 P403+P233 Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects T Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY I Physical Hazard = 1 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: 19437-26-4 Di(2-pyridyl) ketone Identification number(s): EC number: 243-067-3

(Contd. on page 2)

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Product name: Di(2-pyridyl) ketone		
	(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 Causes serious eye irritation. May cause respiratory irritation. 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 product to reach sewage system or any water course. 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 7 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.		
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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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 feëd. 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. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to det purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	ermine if air-	
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.	USA	
	(Contd. on page 3)	

Product name: Di(2-pyridyl) ketone

Page 3/4 Printing date 08/19/2016 Revision date 08/18/2016

(Contd. of page 2)

		(Conta: of page 2)		
9 Physical and chemical properties	5			
Information on basic physical and chemical properties				
General Information Appearance:				
Form:	Solid			
Odor: Odor threshold:	Not determined Not determined.			
pH-value:	Not applicable.			
Change in condition				
Melting point/Melting range: Boiling point/Boiling range:	52-55 °C (126-131 °F) Not determined			
Sublimation temperature / start:	Not determined			
Flash point:	110 °C (230 °F)			
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined			
Decomposition temperature:	Not determined			
Auto igniting: Danger of explosion:	Not determined. Not determined.			
Explosion limits:				
Lower: Upper:	Not determined Not determined			
Vapor pressure:	Not applicable.			
Density: Relative density	Not determined Not determined.			
Vapor density	Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water: Partition coefficient (n-octanol/water)	Not determined			
Viscosity:				
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	Not applicable.			
10 Stability and reactivity				
Reactivity No information known. Chemical stability Stable under recom	mended storage conditions			
Thermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions Re Conditions to avoid No further relevant	eacts with strong oxidizing agents			
Incompatible materials: Oxidizing age	nts			
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 of Skin irritation or corrosion: Causes st	classification: No data kin irritation			
Eye irritation or corrosion: Causes se	prious eye irritation.			
Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	OWD			
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.				
Reproductive foxicity: 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.				
Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed				
OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.				
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant in	formation available			
Persistence and degradability No furt	her relevant information available.			
Bioaccumulative potential No further a Mobility in soil No further relevant info	relevant information available.			
Additional ecological information:				
General notes: Avoid transfer into the e Results of PBT and vPvB assessmen	environment. I t			
PBT: Not applicable.	PBT: Not applicable.			
vPvB: Not applicable. Other adverse effects No further releva	ant information available.			
13 Disposal considerations Waste treatment methods				
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.				
Neconimentation. Disposal must be fr				
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
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(Contd. on page 4)

Product name: Di(2-pyridyl) ketone

	(Contd. of page 3)	
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.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	e Not applicable.	
Transport/Additional information: DOT		
Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
15 Desulatory information		
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		
GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H316 Causes serious eye irritation. H317 Causes serious eye irritation. H316 Causes serious eye irritation. H317 Causes serious eye irritation. H316 Causes serious eye irritation. H316 Causes serious eye irritation. H316 Causes serious eye irritation. P304 P351+P338 (FR) EVESC. P304+P304 (FI) (FI/ALED: Remove vicini to the window eye equation comfortable for breathing. P304+P31+P338 (FR) EVESC. P304-P31 (Framove vicini to the fisheld). P304-P33 Specific treatment (see on this label). P322 (Sore in a well-ventile of portice of advice/attention. F405 Specific treatment (see on this label). R4004 (Lis not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to commercial pupposes of on formulations for Commercial pupposes of on formulations for Commercial pupposes of on formula		
16 Other information Employers should use this information only as a supplement to other informatio information to ensure proper use and protect the health and safety of employee conformance with this Material Safety Data Sheet, or in combination with any o	n gathered by them, and should make independent judgement of suitability of this is. This information is furnished without warranty, and any use of the product not in ther product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Department		
Date of preparation / last revision 08/19/2016 / - Abbreviations and acronyms: APR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGH+: 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) Skin Imt: 2: Skin corrosion/irritation, Hazard Category 2 Eye Imt: 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3		
EPA: Environmental Protéction Agency (USA) Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	USA	