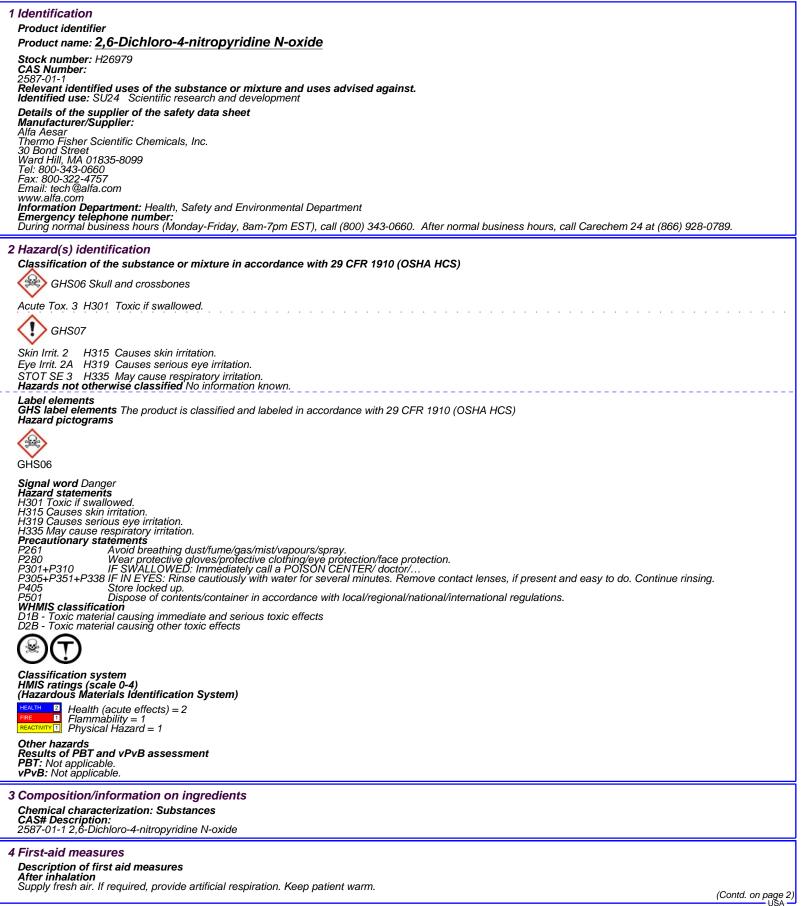


Safety Data Sheet per OSHA HazCom 2012



Safety Data Sheet per OSHA HazCom 2012

Product name: 2,6-Dichloro-4-nitropyridine N-oxide

Product name: 2,6-Dichloro-4-nitrop	yridine N-oxide	
After swallowing Seek medical treatme Information for doctor	r several minutes under running water. Then consult a doctor.	(Contd. of page 1)
5 Fire-fighting measures	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture	
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 Dispose of contaminated material as was Ensure adequate ventilation. 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. ow material to be released to the environment without proper governmental permits. t and cleaning up: ste according to section 13. special measures required.	
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. any incompatibilities and receptacles: No special requirements. amon storage facility: Store away from oxidizing agents. anditions: and containers.	
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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and at the end of work. 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. Protection is suitable gloves motion glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Safety glasses Body protection: Safety glasses		
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Crystalline powder Yellow Not determined Not determined.	
pH-value:	Not applicable.	(0
		(Contd. on page 3)

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Product name: 2,6-Dichloro-4-nitrop	yridine N-oxide	
		(Contd. of page 2)
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	176-180 °C (349-356 °F) (dec) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower:	Product does not present an explosion hazard. Not determined	
Upper: Vapor pressure: Density: Relative density	Not determined Not applicable. Not determined Not determined.	
Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not applicable. Not applicable. Not determined	
Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:		
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomn Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCI)	t 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 effect	kin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity		
Aquatić toxicity: No further relevant info 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. vPvB: Not applicable. Other adverse effects No further releva	the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. t ant information available.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transportation	ion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	(Contd. on page 4)
		USA

oduct name: 2,6-Dichloro-4-nitropyridine N-oxide	
	(Contd. of pa
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	d the IBC Code Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
	110
Regulatory information	
Safety, health and environmental regulations/legislation spec GHS label elements The product is classified and labeled in acc Hazard pictograms	cific for the substance or mixture cordance with 29 CFR 1910 (OSHA HCS)
GHS06	
Signal word Danger	
Hāzard statements H301 Toxic if swallowed.	
H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/s P280 Wear protective gloves/protective clothing/eye	spray. e protection/face.protection
P301+P310 IF SWALLOWED: Immediately call a POISON	N CENTER doctor everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for se P405 Store locked up.	everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance v	with local/regional/national/international regulations.
National regulations This product is not listed in the U.S. Environmental Protection Ag	nency Toxic Substances Control Act Chemical Substance Inventory Use of this product is rest
to research and development only. This product must be used by	gency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is resti y or directly under the supervision of a technically qualified individual as defined by TSCA. This
product must not be used for commercial purposes or in formulat SARA Section 313 (specific toxic chemical listings) Substance	tions for commercial purposes. ce is not listed.
California Proposition 65	
Prop 65 - Chemicals known to cause cancer Substance is not Prop 65 - Developmental toxicity Substance is not listed.	
Prop 65 - Developmental toxicity, female Substance is not liste	ed.
Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically	l. v gualified individuals.
Other regulations, limitations and prohibitive regulations	EACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to the RE	EACH Regulations (EC) No. 1907/2006. Substance is not listed. nnex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
market and use must be observed.	······································
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation)	on for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessment I	the end of the factor of the second
Other information	
Employers should use this information only as a supplement to of information to ensure proper use and protect the health and safe	other information gathered by them, and should make independent judgement of suitability of thi ty of employees. This information is furnished without warranty, and any use of the product not
conformance with this Material Safety Data Sheet, or in combinat	ety of employees." This information is furnished without warranty, and any use of the product not tion 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: Règlement international concernant le transport des marchandises dangereuses IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associa	: par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ation" (IATA)
ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAC	0)
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	
IATA: International Air Transport Association 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 concentration, 50 percent LC50: Lethal concentration, 50 percent	
VPHMS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA)	
Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associa ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO IMDG: International Anitime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chermical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Cocupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IATA: Occupational Safety and Health Administration (USA) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	