

Safety Data Sheet per OSHA HazCom 2012

	Reviewed on 04/19/2010
1 Identification	
Product identifier	
Product name: <u>Pyridine-3,4-dicarboximide</u>	
Stock number: H31758 CAS Number:	
4664-01-1 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	
\sim	
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	
\wedge	
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/tume/gas/mist/vapours/spray.	
P300 Wear biolective gives/piolective containing/eye piolection/ace piolection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Cont P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	inue rinsing.
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	
$(\underline{1})$	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1	
FIRE I 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: 4664-01-1 Pyridine-3,4-dicarboximide	
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 tréatment.	(Contd. on page 2)
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Product name: Pyridine-3,4-dicarbo	ximide	
hetermenten fan heefen		(Contd. of page 1)
Information for doctor Most important symptoms and effects	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.	
	auenuon and Special treatment needed 100 futuler relevant information available.	
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 fo 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.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture Ilowing 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 person See Section 13 for disposal information.	stected persons away. low material to be released to the environment without proper governmental permits. It and cleaning up: Ensure adequate ventilation. I special measures required. andling al protection equipment.	
7 Handling and storage		
Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed of Ensure good ventilation at the workplace Information about protection against Conditions for safe storage, including Storage Requirements to be met by storeroon	e. explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions:	
8 Exposure controls/personal prote Additional information about design of	ection	
Control parameters	quire monitoring at the workplace: Not required.	
Protection of hands: Impervious gloves	andling chemicals should be followed. and feed. thing immediately. nd of work.	
The selection of suitable gloves not only Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work clothi	minutes) Not determined	
9 Physical and chemical properties	5	
Information on basic physical and ch General Information	emical properties	
Appearance: Form:	Solid	
Odor: Odor threshold:	Not determined Not determined.	
pH-value: Change in condition	Not applicable.	
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	232-235 °C (450-455 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	(Contd on page 2)
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Product name: Pyridine-3,4-dicarboximide

Product name: Pyridine-3,4-dicarbo		(Contra of o
Explosion limits:		(Contd. of page 2
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:	Not determined	
Partition coefficient (n-octanol/water) Viscosity:): Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.	manded store as paralities	
Thermal decomposition / conditions	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No Conditions to avoid No further relevan	o dangerous reactions known	
Incompatible materials: Oxidizing age	ents	
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 o	classification: No data	
Skin irritation or corrosion: Causes sl	kin irritation.	
Eye irritation or corrosion: Causes se	irious eye irritation.	
Germ cell mutagenicity: No effects kn	nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Carcinogenicity: No classification data Reproductive toxicity: No effects know	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity	r - repeated exposure: No effects known	
Specific target organ system toxicity Aspiration hazard: No effects known.	- single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	cts 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	e a na	
Aquatic toxicity: No further relevant inf Persistence and degradability No furth	formation available. Ther relevant information available	
Bioaccumulative potential No further i	relevant information available	
Mobility in soil No further relevant infor Additional ecological information:	rmation available.	
General notes:		
Do not allow material to be released to t	the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment.		
Results of PBT and vPvB assessmen PBT: Not applicable.	it	
vPvB: Not applicable.		
Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods	or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be m	nade according to official regulations.	
14 Transport information		
Not a hazardous material for transportat	tion.	
UN-Number	None	
UN-Number DOT, IMDG, IATA	None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA	None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es)		
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA	None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class		
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA	None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA Environmental hazards: Special precautions for user	None None None Not applicable. Not applicable.	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA Environmental hazards: Special precautions for user Transport in bulk according to Annex	None None None Not applicable.	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA Environmental hazards: Special precautions for user	None None None Not applicable. Not applicable.	(Contd. on page 4)

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DOT Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulations GHS label elements The product is classified a Hazard pictograms	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
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GHS07	
P305+P351+P338 IF IN EYES: Rinse cautiousl P304+P340 IF INHALED: Remove perso	as/mist/vapours/spray. ective clothing/eye protection/face protection. y with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. n to fresh air and keep comfortable for breathing.
National regulations ' This product is not listed in the U.S. Environmer	er in accordance with local/regional/national/international regulations. ntal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric t must be used by or directly under the supervision of a technically gualified individual as defined by TSCA. This
product must not be used for commercial purpo SARA Section 313 (specific toxic chemical li California Proposition 65 Prop 65 - Chemicals known to cause cancer Prop 65 - Developmental toxicity Substance i	ses or in formulátions for commercial purposes. istings) Substance is not listed. Substance is not listed. is not listed.
The conditions of restrictions according to A	tance is not listed. only by technically qualified individuals.
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requin Chemical safety assessment: A Chemical Saf	r ing Authorisation for use) Substance is not listed. fety Assessment has not been carried out.
information to ensure proper use and protect the	a supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not i et, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing De Date of preparation / last revision 11/23/2015	epartment 5/-
ADD Concernant le transport des march ATA-DGR: Dangerous Goods Regulations by the "International CAO: International Civil Aviation Organization CAO: International Civil Aviation Dranational Civil Aviat	handises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) I Air Transport Association" (IATA) ion Organization" (ICAO)
MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation ATA: International Air Transport Association AS: Chemical Abstracts Service (division of the American Che	emical Society)
2017: US Department of Transportation ATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Che MIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (C .C50: Lethal concentration, 50 percent DSD: Lethal dose, 50 percent DSD: Lethal dose, 50 percent PVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) VTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	Canada)
VCCIH: American Conference of Governmental Industrial Hygie JSHA: Occupational Safety and Health Administration (USA) VTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer	ənists (USA)