Printing date 12.08.2010		Revision: 12.08.2010
1 Identification of substance Product details		
Trade name	Pyridine-3,4-dicarboximide	
Stock number:	H31758	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	I
	Benzstrasse 3 D-76185 Karlsruhe / Germany	E-mail: gcat@matthey.com www.alfa-chemcat.com
Informing department:	Product safety department.	WWW.dlla-Chemcal.com
Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
O Uppenda identification		
2 Hazards identification	r1	
Hazard designation:	Xi Irritant	I
Information pertaining to particular dangers for man and environment	R 36/37/38 Irritating to eyes, respiratory system and skin.	I
GHS label elements		
	Warning	I
	H315 - Causes skin irritation.	
	H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.	I
Prevention:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
Response:	P302+P352 IF ON SKIN: wash with pienty or soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Re	emove contact lenses, if present
	<ul> <li>Hatton:</li> &lt;</ul>	
Storage:		
Disposal:	P501 Dispose of contents/container in accordance with local/regional/national/inter	rnational regulations.
3 Composition/information on ingredient	S	
Chemical characterization: Designation: (CAS#)	Pyridine-3,4-dicarboximide (CAS# 4664-01-1)	
4 First aid measures		
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consu Seek immediate medical advice.	ult doctor if symptoms persist.
After skin contact	Instantly wash with water and soap and rinse thoroughly.	
After eye contact	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor.	I
After swallowing	Seek immediate medical advice.	
5 Fire fighting measures		
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-r	esistant foam.
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire:	
products of compustion of the gases.	Carbon monovide and carbon diovide	I
	Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Wear self-contained breathing apparatus.	
Protective equipment:	Wear self-contained breathing apparatus.	
	Wear full protective suit.	
6 Accidental release measures		
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Measures for environmental protection:	Do not allow material to be released to the environment without proper government	tal permits.
Measures for cleaning/collecting: Additional information:	Ensure adequate ventilation. See Section 7 for information on safe handling See section 8 for information on personal protection equipment.	
Additional Internation	See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.	
	See Section 13 for information on disposal.	
7 Handling and storage		
Handling Information for safe handling:	Keen containers tightly sealed	
Information for sale nanoling.	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.	
Information about protection against	Ensure good ventilation/exhaustion at the workplace.	
explosions and fires:	Keep ignition sources away - Do not smoke.	
Storage Requirements to be met by storerooms and		
containers:	No special requirements.	
Information about storage in one common storage facility:	Store away from oxidizing agents.	
Further information about storage	Keep container tightly sealed.	
conditions:	Store in cool, dry conditions in well sealed containers.	1
conditions:		
conditions: 8 Exposure controls and personal protec		
8 Exposure controls and personal protec Additional information about design of	tion	
8 Exposure controls and personal protec	tion Properly operating chemical fume hood designed for hazardous chemicals and hay	ving an average face velocity of at
8 Exposure controls and personal protec Additional information about design of technical systems:	tion Properly operating chemical fume hood designed for hazardous chemicals and hav least 100 feet per minute.	ving an average face velocity of at
8 Exposure controls and personal protec Additional information about design of technical systems:	tion Properly operating chemical fume hood designed for hazardous chemicals and hav least 100 feet per minute. Not required.	ving an average face velocity of at
8 Exposure controls and personal protec Additional information about design of technical systems:	tion Properly operating chemical fume hood designed for hazardous chemicals and hav least 100 feet per minute.	ving an average face velocity of at (Contd. on page 2)

Printing date 12.08.2010

Form:

Revision: 12.08.2010 Trade name Pyridine-3,4-dicarboximide Personal protective equipment General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Breathing equipment: Protection of hands: Material of gloves Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Impervious gloves Penetration time of glove material Eye protection: Not determined Safety glasses Face protection **Body protection:** Protective work clothing. 9 Physical and chemical properties: **General Information** Solid. Not determined Smell: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 232-235°C Not determined Not determined Ignition temperature: Not determined **Decomposition temperature:** Not determined Danger of explosion: Product is not explosive. Critical values for explosion: ower: Not determined Upper: Not determined Steam pressure: Not determined Density Not determined 10 Stability and reactivity Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications. Materials to be avoided: Dangerous reactions: Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Dangerous products of decomposition: 11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: Irritant for skin and mucous membranes. No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. on the eye: Sensitization: Additional toxicological information: 12 Ecological information: Additional ecological information: Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits. General notes: 13 Disposal considerations Product: Recommendation Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) ADR/RID-GGVS/E Class: None Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: None Marine pollutant: No Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: None

Transport/Additional information: Not dangerous according to the above specifications.

GB (Contd. on page 3)

(Contd. of page 1)

## Trade name **Pyridine-3,4-dicarboximide**

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Regulatory information		
Designation according to EC guidelines:		
Code letter and hazard designation of product:	Xi Irritant	
Risk phrases:	36/37/38 Irritating to eyes, respiratory system and skin.	
Safety phrases:	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 37 Wear suitable gloves.	
National regulations		
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	

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.

 Conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

 Department issuing data specification sheet:
 Health, Safety and Environmental Department.

 Contact:
 Zachariah Holt

 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)

 RID: Réglement international Martime Code for Dangerous Goods
 Name Provide State (International Air Transport Association International Air Transport Association International Air Transport Association International Civil Aviation Organization (ICAO)

 ICAO: International Civil Aviation Organization
 ICAO: The Technical Instructions by the "International Civil Aviation Organization" (ICAO)

 GH Sci Globally Harmonized System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)

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