| | Revision: | 14.07.2010 |
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| Printing date 14.07.2010 | Revision: 14.07.2010 | |
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| 1 Identification of substance | | |
| Product details | | |
| Trade name | Pyridine-3,4-dicarboxylic anhydride | |
| Stock number: | A10771 | |
| | | |
| Manufacturer/Supplier: | Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany www.alfa-chemcat.com | |
| Informing department: | | |
| Emergency information: | Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240 | |
| 2 Hazards identification | | |
| Hazard designation: | | |
| hazara designation. | Xi Irritant | |
| Information pertaining to particular dangers for man and environment | D 20/07/00 Instation to every representation or dealers | |
| GHS label elements | R 36/37/38 Irritating to eyes, respiratory system and skin. Warning | |
| | H315 - Causes skin irritation. | |
| | H319 - Causes serious eve irritation | |
| Prevention: | H335 - May cause respiratory irritation. | |
| Response: | H335 - May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present | |
| | P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321Specific treatment (see on this label). | |
| Storage: Disposal: | P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. | |
| 2 Composition/information on ingradiant | | |
| 3 Composition/information on ingredients Chemical characterization: | 5 | |
| Designation: (CAS#) | Pyridine-3,4-dicarboxylic anhydride (CAS# 4664-08-8); 100% | |
| 4 First aid measures | | |
| After inhalation | Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. | |
| After skin contact | Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. | |
| | Seek immediate medical advice. | |
| After eye contact After swallowing | Rinse opened eye for several minutes under running water. Then consult doctor. Seek immediate medical advice. | |
| 5 Fire fighting measures | | |
| | CO2, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam. | |
| Suitable extinguishing agents Special hazards caused by the material, its | | |
| products of combustion or flue gases: | Can be released in case of fire: Carbon monoxide and carbon dioxide | |
| Protoctive equipment: | Nitrogen oxides (NOx) Wear self-contained breathing apparatus. | |
| Protective equipment: | Wear full protective suit. | |
| 6 Accidental release measures | | |
| Person-related safety precautions: | Wear protective equipment. Keep unprotected persons away. | |
| • • | Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. | |
| Measures for environmental protection: Measures for cleaning/collecting: | Ensure adequate ventilation | |
| Additional information: | See Section 7 for information on safe handling | |
| | See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal. | |
| 7 Handling and storage | | |
| Handling | | |
| Information for safe handling: | Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. | |
| Information chart protection and incl | Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. | |
| Information about protection against explosions and fires: | No special measures required. | |
| 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 | Store away from water. | |
| conditions: | Protect from humidity and keep away from water. Keep container tightly sealed. | |
| | Store in cool, dry conditions in well sealed containers. | |
| 8 Exposure controls and 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. | |
| Components with critical values that require monitoring at the workplace: | Not required. | |
| Additional information: | No data | |
| Personal protective equipment General protective and hygienic measures | The usual precautionary measures should be adhered to in handling the chemicals. | |
| General protective and hygienic measures | Keep away from foodstuffs, beverages and food. | |
| | 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. | |
| Describing - main and | Avoid contact with the eyes and skin. | |
| Breathing equipment: | Use breathing protection with high concentrations. (Contd. on page 2) | |
| | GB-1 | |

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| Trade name Pyridine-3,4-dicarboxylic a | nhydride | |
| | | (Contd. of page 1) |
| Eye protection: | Safety glasses Face protection | |
| Body protection: | Protective work clothing. | |
| 9 Physical and chemical properties: | | |
| General Information Form: | Powder | |
| Colour: | White | |
| Smell: Change in condition | Not determined | |
| Melting point/Melting range: Boiling point/Boiling range: | 75-77°C Not determined | |
| Sublimation temperature / start: | Not determined | |
| Flash point: Ignition temperature: | Not applicable Not determined | |
| Decomposition temperature: | Not determined | |
| Danger of explosion: | Product is not explosive. | |
| Critical values for explosion: Lower: | Not determined | |
| Upper: | Not determined | |
| Steam pressure: Density | Not determined Not determined | |
| Solubility in / Miscibility with | | |
| Water: | Decomposes | |
| 10 Stability and reactivity | | |
| Thermal decomposition / conditions to be avoided: | No decomposition if used and stored according to specifications. | |
| Materials to be avoided: | Oxidizing agents Water/moisture | |
| Dangerous reactions: Dangerous products of decomposition: | No dangerous reactions known Carbon monoxide and carbon dioxide | |
| Dangerous products of decomposition. | Nitrogen oxides (NOx) | |
| 11 Toxicological information | | |
| Acute toxicity: Primary irritant effect: | | |
| on the skin: on the eye: | Irritant for skin and mucous membranes. Irritant effect. | |
| Sensitization: Additional toxicological information: | 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 ACGIH. | C, NTP, OSHA or |
| 12 Ecological information: | | |
| 12 Ecological information: Additional ecological information: | | |
| General notes: | Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large guantities of it to reach ground water, water bodies or sevent | vage system |
| | Do not allow material to be released to the environment without proper governmental permits. | vage system. |
| 13 Disposal considerations | | |
| Product: Recommendation | Consult state, local or national regulations for proper disposal. | |
| | Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. | |
| Uncleaned packagings: | | |
| Recommendation: | Disposal must be made according to official regulations. | |
| 14 Transport information | avece herder(demostic) | |
| Land transport ADR/RID and GGVS/GGVE (ADR/RID-GGVS/E Class: | None | |
| Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: Marine pollutant: | None No | |
| Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: | None | |
| Transport/Additional information: | Not dangerous according to the above specifications. | |
| 15 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 | טי אירכמו שנונמטוב צוטיבש. | |
| Information about limitation of use: | For use only by technically qualified individuals. | |
| | Employment réstrictions concerning young persons must be observed. | (Contd. on page 3) |
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Trade name *Pyridine-3,4-dicarboxylic anhydride*

| Water hazard class: | Water hazard class 1 (Self-assessment): slightly hazardous for water. |
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| 16 Other information: Employers should use this information only as a si information to ensure proper use and protect the h conformance with this Material Safety Data Sheet, | upplement to other information gathered by them, and should make independent judgement of suitability of this lealth and safety of employees. This information is furnished without warranty, and any use of the product not in or in combination with any other product or process, is the responsibility of the user. |
| Department issuing data specification sheet: Contact: Abbreviations and acronyms: | Health, Safety and Environmental Department. Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Martime Code for Dangerous Goods IATA: International Martime Code for Dangerous Goods IATA: International Air Transport Association IATA: PGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAC: International Civil Aviation Organization ICAC-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) |
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