| | according to 1907/2006/EC, Article 31 | |
|--|---|--|
| Printing date 14.07.2010 | | Revision: 14.07.2010 |
| 1 Identification of substance | | |
| Product details | | |
| Trade name | 2-Methyl-5-nitrobenzonitrile | |
| Stock number: | A11392, L08096 | |
| 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 | |
| Emergency mormation. | www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240 | |
| 2 Hazards identification | | |
| Hazard designation: | | |
| Hazara designation. | Xn Harmful | |
| Information pertaining to particular dangers | | |
| Information pertaining to particular dangers for man and environment | R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. | |
| GHS label elements | R 36/37/38 Irritating to eyes, respiratory system and skin. | |
| | Warning | |
| | H302 - Harmful if swallowed. | |
| | H312 - Harmful in contact with skin. H332 - Harmful if inhaled. | |
| | H315 - Causes skin irritation. H319 - Causes serious eye irritation. | |
| Proceedian | H335 - May cause respiratory irritation. | |
| Prevention: Response: | 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 minut | |
| | P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minut and easy to do. Continue rinsing. | es. Remove contact lenses, if present |
| A | P321 Specific treatment (see on this label). | |
| Storage: Disposal: | P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/nationa | l/international regulations. |
| • | | |
| 3 Composition/information on ingredients Chemical characterization: | 5 | |
| Designation: (CAS#) | 2-Methyl-5-nitrobenzonitrile (CAS# 939-83-3): 100% | |
| 4 First aid measures | | |
| After inhalation | Supply fresh air. If required, provide artificial respiration. Keep patient warm. | Consult doctor if symptoms persist. |
| | Seek immediate medical advice. | |
| After skin contact | 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 doc Seek immediate medical advice. | :tor. |
| 5 | | |
| 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 alco | onol-resistant toam. |
| products of combustion or flue gases: | Can be released in case of fire: Carbon monoxide and carbon dioxide | |
| | Nitrogen oxides (NOx) | |
| Protective equipment: | Hydrogen cyanide (HCN) Wear self-contained breathing apparatus. | |
| | Wear full protective suit. | |
| 6 Accidental release measures | | |
| Person-related safety precautions: | Wear protective equipment. Keep unprotected persons away. | |
| Measures for environmental protection: | Ensure adequate ventilation Do not allow material to be released to the environment without proper govern | mental permits. |
| Measures for cleaning/collecting: | Do not allow material to be released to the environment without proper govern Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. | |
| Additional information: | 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 | · · · · · · · · · · · · · · · · · · · | |
| 7 Handling and storage Handling | | |
| Information for safe handling: | Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. | |
| | Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. | |
| Information about protection against explosions and fires: | Keep ignition sources away - Do not smoke. | |
| Storage | Reep ignition sources away - Do not smoke. | |
| Requirements to be met by storerooms and | No encoiel requiremente | |
| containers: Information about storage in one common | No special requirements. | |
| storage facility: Further information about storage | Store away from oxidizing agents. | |
| conditions: | Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. | |
| | | |
| 8 Exposure controls and personal protect | tion | |
| Additional information about design of technical systems: | Properly operating chemical fume hood designed for hazardous chemicals ar | d having an average face velocity of at |
| teennear systems. | least 100 feet per minute. | in having an average race velocity of at |
| Components with critical values that require | Not required | |
| monitoring at the workplace: Additional information: | Not required. No data | |
| Personal protective equipment | | |
| General protective and hygienic measures | The usual precautionary measures should be adhered to in handling the cher Keep away from foodstuffs, beverages and food. | |
| | | (Contd. on page 2) GB |
| | | |

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| rade name 2-Methyl-5-nitrobenzonitrile | 9 | |
| Breathing equipment: Protection of hands: Material of gloves Penetration time of glove material Eye protection: | (Contd. of page 1) 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. 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 Not determined Safety glasses | |
| Body protection: | Face protection Protective work clothing. | |
| 9 Physical and chemical properties: | | |
| General Information | | |
| Form: Colour: Smell: | Powder Yellow Not determined | |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: | 104-108°C Not determined Not determined | |
| Flash point: | Not applicable | |
| Ignition temperature: Decomposition temperature: | Not determined Not determined | |
| Danger of explosion: | Product is not explosive. | |
| Critical values for explosion: Lower: Upper: | Not determined Not determined | |
| Steam pressure: | Not determined | |
| Density Solubility in / Miscibility with | Not determined | |
| Water: | Insoluble | |
| Thermal decomposition / conditions to be avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition: | No decomposition if used and stored according to specifications. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen cyanide (prussic acid) | |
| 11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information: | Irritant for skin and mucous membranes. Irritant effect. No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Danger by skin resorption. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. | |
| 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 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. | |
| 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 | | |
| Land transport ADR/RID and GGVS/GGVE (| cross-border/domestic) | |
| | | |
| ADR/RID-GGVS/E Class: Kemler Number: UN-Number: Packaging group: Label Designation of goods: Limited quantities (LQ) Transport category | 6.1 (T2) Toxic substances. 60 3439 III 6.1 3439 NITRILES, TOXIC, SOLID, N.O.S. (2-Methyl-5-nitrobenzonitrile) LQ9 2 | |

Safety Data Sheet according to 1907/2006/EC, Article 31

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|--|---|--|
| Trade name 2-Methyl-5-nitrobenzonitrile | | |
| | (Contd. of page 2) | |
| Tunnel restriction code | E | |
| Maritime transport IMDG/GGVSea: | | |
| | | |
| IMDG/GGVSea Class: UN Number: Label | 6.1 3439 6.1 | |
| Packaging group: Marine pollutant: Correct technical name: | III No NITRILES, TOXIC, SOLID, N.O.S. (2-Methyl-5-nitrobenzonitrile) | |
| Air transport ICAO-TI and IATA-DGR: | | |
| \diamond | | |
| ICAO/IATA Class: UN/ID Number: | 6.1 3439 | |
| Label Packaging group: Correct technical name: | 6.1 III NUTRULES TOXIC SOLID N.O.S. (2 Method 5 situshassasitrile) | |
| UN "Model Regulation": | NITRILES, TOXIC, SOLID, N.O.S. (2-Methyl-5-nitrobenzonitrile) | |
| on model Regulation . | UN3439, NITRILES, TOXIC, SOLID, N.O.S., 6.1, III | |
| 15 Regulatory information | | |
| Designation according to EC guidelines: | | |
| Code letter and hazard designation of product: | Xn Harmful | |
| Risk phrases: | 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. 36/37/38 Irritating to eyes, respiratory system and skin. | |
| Safety phrases: | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37 Wear suitable protective clothing and 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. | |
| 16 Other information: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this 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. | | |
| 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) RD: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA: International Civil Avaition Organization ICAO: International Civil Avaition Organization ICAO-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) | |
| | | |