

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 2,6-Dihydroxynaphthalene Stock number: B21465 CAS Number: 591 42 1

CAS Number: 581-43-1 EC number: 209-465-6 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. Inerrito Fisher Scheman C. 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 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 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/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 WHMIS classification D2B - Toxic material causing other toxic effects Ţ Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammàbility = 1 TIVITY 1 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: 581-43-1 2,6-Dihydroxynaphthalene Identification number(s): EC number: 209-465-6 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. (Contd. on page 2)

Product name: 2,6-Dihydroxynaphthalene

(Contd. of page 1) Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special freatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Impervious gloves Exposure controls 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. Quality will vary from manufacturer to manufacturer. **Eye protection:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: Grey to pale brown Odor: Odor threshold: Not determined Not determined pH-value: Not applicable.

(Contd. on page 3)

Product name: 2.6-Dihvdroxvnaphthalene

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| Reactivity No information known. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reactions Reactions Reactions available. Incompatible materials: Oxidizing agents: Hazardous decomposition products: Carbon monoxide and carbon dioxide Toxicological information Information on toxicological effects Acute toxicity: No effects known. DLOC59 values that are relevant information: No data Skin Initiation or corroston: Causes skin initiation. Germ cell mutagenicity: No effects known. Germ cell mutagenicity: No effects known. Germ cell mutagenicity: No effects known. Sensitization gifteds known. Germ cell mutagenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: May cause respiratory irritation. Additional toxicological information Toxicity Madditional toxicological information available. How any assess and information available. Mobility in Specific target organ system toxicity - repeated exposure: May cause respiratory irritation. Additional toxicological information available. How any assessment information available. Bioaccumulative potential No further relevant information available. Mobility in Specific target organ system toxicity - single exposure: May cause respiratory irritation. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Ecological information Toxicity Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Additional ecological information: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Acoult marker for the fereivant information available. Bioaccumentation Consult state, local or nati | | |
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| | Specific target organ system toxicit Specific target organ system toxicit Aspiration hazard: No effects known Subacute to chronic toxicity: No eff Additional toxicological information Toxicity Aquatic toxicity: No further relevant i Persistence and degradability No fu Bioaccumulative potential No further Mobility in soil No further relevant in Additional ecological information: General notes: Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessme PBT: Not applicable. VPvB: Not applicable. VPvB: Not applicable. Bisposal considerations Waste treatment methods Recommendation: Disposal must be Transport information UN-Number DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Packing group DOT, IMDG, IATA Environmental hazards: | ty - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation. etets known. 1: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Information available. Information available. Informa |

Safety Data Sheet per OSHA HazCom 2012

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| oduct name: 2,6-Dihydroxynaphthalene | |
|---|--|
| | (Contd. of page 3) |
| Transport/Additional information: DOT | |
| Marine Pollutant (DOT): | No |
| UN "Model Regulation": | <u> </u> |
| GHS label elements The product is classified a. Hazard pictograms | /legislation specific for the substance or mixture nd labeled in accordance with 29 CFR 1910 (OSHA HCS) |
| National regulations All components of this product are listed in the L All components of this product are listed on the U SARA Section 313 (specific toxic chemical lis California Proposition 65 Prop 65 - Chemicals known to cause cancer 3 Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance Information about limitation of use: For use o Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed. Substance is not listed. | Substance is not listed. s not listed. stance is not listed. ance is not listed. ance is not listed. ance is not listed. aregulations ording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ring Authorisation for use) Substance is not listed. |
| information to ensure proper use and protect the conformance with this Material Safety Data She | supplement to other information gathered by them, and should make independent judgement of suitability of this a health and safety of employees. This information is furnished without warranty, and any use of the product not in 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 1/23/2015 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dang DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical CAS: Chemical Abstracts Service (division of the American Che, HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (C CC00: Lethal dose, 50 percent UPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) LARC: International Agency for Research on Cancer | apartment /- nereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Substances mical Society) Canada) anists (USA) |

EPA: Environmental Protection Agency (USA)

USA -