



| 1 Identification |
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| Product identifier |
| Product name: 2-Chloro-1,4-dimethoxybenzene |
| Stock number: B23497 CAS Number: 2100-42-7 |
| 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 |
| 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 |
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| GHS07 |
| Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory 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. 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 |
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| Classification system HMIS ratings (scale 0-4) |
| (Hazardous Materials Identification System) HEALTH 1 Health (acute effects) = 1 |
| FIRE Flammability = 1 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: 2100-42-7 2-Chloro-1,4-dimethoxybenzene |
| 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 treatment. |
| (Contd. on page 2) USA |
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Product name: 2-Chloro-1,4-dimethoxybenzene (Contd. of page 1) 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 treatment 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 Hydrogen chloride (HCI) Advice for fireficture 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 Ensure adequate ventilation **Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits. **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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: Not required. 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 context with the everage and exin Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present. Protection of hands: 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: Liauid Odor: Not determined Odor threshold: Not determined pH-value: Not determined. Change in condition Not determined 231-234 °C (448-453 °F) Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Flash point: > 110 °C (> 230 °F) Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

Product name: 2-Chloro-1 A-dimethovybonzone

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| Product name: 2-Chloro-1,4-dimethoxybenzene | | |
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| | | (Contd. of page 2) |
| Auto igniting: | Not determined. | |
| Danger of explosion: Explosion limits: Lower: | Product does not present an explosion hazard. Not determined | |
| Upper: | Not determined | |
| Vapor pressure: Density at 20 °C (68 °E): | Not determined 1.21 g/cm³ (10.097 lbs/gal) | |
| Density at 20 °C (68 °F): Relative density | Not determined. | |
| Vapor density Evaporation rate | Not determined. Not determined. | |
| Solubility in / Miscibility with | | |
| Water: | Not determined | |
| Partition coefficient (n-octanol/water): Viscosity: | | |
| dynamic: kinematic: | Not determined. Not determined. | |
| Other information | No determined. No further relevant information available. | |
| 10 Stability and reactivity | | |
| Reactivity No information known. | mended storage conditions | |
| Conditions to avoid No further relevant | t information available. | |
| Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) | | |
| 11 Toxicological information Information on toxicological effects | | |
| Acute toxicity: No effects known. | · ···· ·· ·· ·· ·· | |
| LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes sk | | |
| Eve irritation or corrosion: Causes ser | rious eve irritation. | |
| Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno | אשר. מעור | |
| Carcinodenicity: No classification data | on carcinogenic properties of this material is available from the EPA. IARC, NTP, USHA or ACGIH. | |
| Reproductive toxicity: No effects know | ın. | |
| Specific target organ system toxicity | repeated exposure: No effects known. single exposure: May cause respiratory irritation. | |
| Aspiration hazard: No effects known. | | |
| Subacute to chronic toxicity: No effect Additional toxicological information: | ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. | |
| 12 Ecological information | | i |
| Toxicity | | |
| Aquatic toxicity: No further relevant info | ormation available. | |
| Persistence and degradability No furth | her relevant information available. | |
| Bioaccumulative potential No further re Mobility in soil No further relevant inform | mation available. | |
| Additional ecological information: General notes: | | |
| Do not allow material to be released to the | he environment without proper governmental permits. | |
| Do not allow undiluted product or large q Avoid transfer into the environment. | quantities to reach ground water, water course or sewage system. | |
| Results of PBT and vPvB assessment | t | |
| PBT: Not applicable. vPvB: Not applicable. | | |
| Other adverse effects No further releva | Int information available. | |
| 13 Disposal considerations | | |
| Waste treatment methods | | |
| Recommendation Consult state, local o | or national regulations to ensure proper disposal. | |
| Uncleaned packagings: Recommendation: Disposal must be ma | ade according to official regulations. | |
| 14 Transport information | | |
| Not a hazardous material for transportati | on. | |
| UN-Number DOT, IMDG, IATA | None | |
| UN proper shipping name DOT, IMDG, IATA | None | |
| Transport hazard class(es) | | |
| DOT, ADR, IMDG, IATA Class | None | |
| Packing group DOT, IMDG, IATA | None | |
| Environmental hazards: | Not applicable. | |
| Special precautions for user | Not applicable. | |
| | II of MARPOL73/78 and the IBC Code Not applicable. | |
| Transport/Additional information: | Not dangerous according to the above specifications. | |
| | | (Contd. on page 4) |

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| DOT Marine Pollutant (DOT): | No |
| 5 Regulatory information Safety, health and environmental regulations/le GHS label elements The product is classified and Hazard pictograms GHS07 | gislation specific for the substance or mixture labeled in accordance with 29 CFR 1910 (OSHA HCS) |
| Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H339 Causes respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/ P280 Wear protective gloves/protecti P305+P351+P338 IF IN EYES: Rinse cautiously w P304+P340 IF INHALED: Remove person to P405 Store locked up. P501 Dispose of contents/container in National regulations All components of this product are listed in the U.S All components of this product are listed on the Ca SARA Section 313 (specific toxic chemical listin California Proposition 65 Prop 65 - Developmental toxicity, Substance is no Prop 65 - Developmental toxicity, male Substance Information about limitation of use: For use only Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) accord | ve clothing/eyè protection/face protection. ith water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. o fresh air and keep comfortable for breathing. In accordance with local/regional/national/international regulations. E. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. nadian Non-Domestic Substances List (NDSL). ngs) Substance is not listed. bstance is not listed. of listed. ce is not listed. ce is not listed. y by technically qualified individuals. gulations ding to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. cle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t g Authorisation for use) Substance is not listed. |
| information to ensure proper use and protect the he | upplement to other information gathered by them, and should make independent judgement of suitability of this ealth and safety of employees. This information is furnished without warranty, and any use of the product not i or in combination with any other product or process, is the responsibility of the user. |
| Department issuing SDS: Global Marketing Depart Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemic HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Can LCSO: Lethal concentration, 50 percent UPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienist OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) | al Society) |