

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier

| Product name: <u>4,4'-Oxybis(benzoic acid)</u> | |
|--|--------------------|
| Stock number: L15651 | |
| CAS Number: 2215-89-6 | |
| EC number: 218-683-0 | |
| 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) 926 | 8-0789. |
| 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 | |
| \wedge | |
| | |
| GHS07 | |
| Signal word Warning Hazard statements | |
| H315 Causes skin irritation. | |
| H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements | |
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| P261 Avoid breathing dustriancy gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. | |
| 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 rins P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. | ing. |
| 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 | |
| (\mathbf{T}) | |
| Classification system | |
| HMIS ratings (scale 0-4) (Hazardous Materials Identification System) | |
| HEALTH \square Health (acute effects) = 1 | |
| File II Flammability = 1 | |
| REACTIVITY D 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 | |
| Chemical characterization: Substances CAS# Description: | |
| 2215-89-6 4,4-Oxybis(benzoic acid) Identification number(s): | |
| EC number: 218-683-0 | |
| 4 First-aid measures | |
| Description of first aid measures | |
| After inhalation Supply fresh air. If required, provide artificial respiration, Keep patient warm | |
| 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) |
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|---|---|--------------------|
| After swallowing Seek medical treatme Information for doctor Most important symptoms and effect | or several minutes under running water. Then consult a doctor. ent. 's, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available. | (Contd. of page 1) |
| 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbor Special hazards arising from the sub- If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture Illowing can be released: | |
| 6 Accidental release measures Personal precautions, protective equ Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not al Methods and material for containmer Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe he See Section 8 for information on person See Section 13 for disposal information. | otected persons away. Ilow material to be released to the environment without proper governmental permits. It and cleaning up: Ensure adequate ventilation. In special measures required. In and protection equipment. | |
| Conditions for safe storage, including Storage Requirements to be met by storeroon | e. explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. onditions: led containers | |
| Control parameters Components with limit values that rea The product does not contain any releva Additional information: No data Exposure controls Personal protective equipment General protective and hygienic mea The usual precautionary measures for h Keep away from foodstuffs, beverages Remove all soiled and contaminated clo Wash hands before breaks and at the e Avoid contact with the eyes and skin. Maintain an ergonomically appropriate v Breathing equipment: Use suitable res Recommended filter device for short Use a respirator with type N95 (USA) or purifying respirators are appropriate. O Protection of hands: Impervious gloves Check protective gloves prior to each us | of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. quire monitoring at the workplace: ant quantities of materials with critical values that have to be monitored at the workplace. sures handling chemicals should be followed. and feed. othing immediately. ind of work. working environment. spirator when high concentrations are present. term use: r PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to det nly use equipment tested and approved under appropriate government standards. se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. | ermine if air- |
| 9 Physical and chemical properties | | |
| Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor: Odor threshold: | | |
| pH-value: | Not applicable. | |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: | 329-332 °C (624-630 °F) Not determined | (Contd. on page 3) |

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| | | (Contd. of page 2) | |
| Sublimation temperature / start: | Not determined | | |
| Flash point: Flammability (solid, gaseous) | Not applicable Not determined. | | |
| Ignition temperature: Decomposition temperature: | Not determined Not determined | | |
| Auto igniting: | Not determined. | | |
| Danger of explosion: Explosion limits: | Product does not present an explosion hazard. | | |
| Lower: Upper: | Not determined Not determined | | |
| Vapor pressure: Density: | Not applicable. Not determined | | |
| Relative density | Not determined. | | |
| Vapor density Evaporation rate | Not applicable. Not applicable. | | |
| Solubility in / Miscibility with Water: | Insoluble | | |
| Partition coefficient (n-octanol/water) Viscosity: | : Not determined. | | |
| dynamic: kinematic: | Not applicable. Not applicable. | | |
| Other information | No further relevant information available. | | |
| 10 Stability and reactivity | | | |
| 10 Stability and reactivity Reactivity No information known. | | | |
| Chemical stability Stable under recom | mended storage conditions. | | |
| Possibility of hazardous reactions Re | to be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents | | |
| Conditions to avoid No further relevan Incompatible materials: Oxidizing age | nts | | |
| Hazardous decomposition products: | Carbon monoxide and carbon dioxide | | |
| 11 Toxicological information | | | |
| Information on toxicological effects Acute toxicity: No effects known. | | | |
| LD/LC50 values that are relevant for e | | | |
| Skin irritation or corrosion: Causes su Eye irritation or corrosion: Causes se | rious eye irritation. | | |
| Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn | own. | | |
| Carcinogenicity: No classification data | on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. | | |
| Reproductive toxicity: No effects know Specific target organ system toxicity | - repeated exposure: No effects known. | | |
| Specific target organ system toxicity Aspiration hazard: No effects known. | - single exposure: May cause respiratory irritation. | | |
| Subacute to chronic toxicity: No effect | ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. | | |
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| 12 Ecological information Toxicity | | | |
| Aquatic toxicity. No further relevant in | formation available. | | |
| Persistence and degradability No furt Bioaccumulative potential No further | relevant information available. | | |
| Mobility in soil No further relevant info Additional ecological information: | mation available. | | |
| General notes: Do not allow material to be released to the environment without proper governmental permits. | | | |
| Avoid transfer into the environment. Results of PBT and vPvB assessmen | | | |
| PBT: Not applicable. | t i i i i i i i i i i i i i i i i i i i | | |
| vPvB: Not applicable. Other adverse effects No further relevant | ant information available. | | |
| 13 Disposal considerations | | | |
| Waste treatment methods | | | |
| Recommendation Consult state, local Uncleaned packagings: | or national regulations to ensure proper disposal. | | |
| Recommendation: Disposal must be n | nade according to official regulations. | | |
| 14 Transport information | | | |
| UN-Number DOT, ADN, IMDG, IATA | Not applicable | | |
| UN proper shipping name DOT, ADN, IMDG, IATA | | | |
| | Not applicable | | |
| Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA | | | |
| Class | Not applicable | | |
| Packing group DOT, IMDG, IATA | Not applicable | | |
| Environmental hazards: | Not applicable. | | |
| Special precautions for user | Not applicable. | | |
| Transport in bulk according to Annex | r II of MARPOL73/78 and the IBC Code Not applicable. | | |

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| | (Contd. of page 3 |
| Transport/Additional information: | |
| DOT Marine Pollutant (DOT): | No |
| UN "Model Regulation": | - |
| | |
| 15 Regulatory information | s/logislation specific for the substance or mixture |
| GHS label elements The product is classified al Hazard pictograms | s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS) |
| \land | |
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| P304+P340 IF INHALED: Remove persór P405 Store locked up. | n to fresh air and keep comfortable for breathing. |
| | er in accordance with local/regional/national/international regulations. |
| All components of this product are listed in the L | U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Canadian Non-Domestic Substances List (NDSL). |
| SARA Section 313 (specific toxic chemical lis | stings) Substance is not listed. |
| California Proposition 65 Prop 65 - Chemicals known to cause cancer S | Substance is not listed. |
| Prop 65 - Developmental toxicity Substance is Prop 65 - Developmental toxicity, female Sub- | s not listed. |
| Prop 65 - Developmental toxicity, male Substa Information about limitation of use: For use of | tance is not listed |
| Other regulations, limitations and prohibitive | e regulations |
| Substance of Very High Concern (SVHC) acc | cording 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 |
| market and use must be observed. Substance is not listed. | |
| Annex XIV of the REACH Regulations (reguin | ring Authorisation for use) Substance is not listed. |
| Chemical safety assessment: A Chemical Safe | ety Assessment has not been carried out. |
| 16 Other information Employers should use this information only as a | 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 | e health and safety of employees. This information is furnished without warranty, and any use of the product not in the text, or in combination with any other product or process, is the responsibility of the user. |
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| Date of preparation / last revision 11/23/2015 | epartment / - handises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) I Air Transport Association" (IATA) ion Organization" (ICAD) |
| RID: Reglement international concernant le transport des march IATA-DGR: Dangerous Goods Regulations by the "International | handises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Il Air Transport Association" (IATA) |
| ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation | ion Organization" (ICAO) |
| ADR: Accord europeen sur le transport des marchandises dange DOT: US Department of Transportation FINECS: European Inventory of Existing Commercial Chemical | ion organization (ICAO) precises par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) I Substances emical Society) Canada) |
| CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials Identification System (USA) | imical Society) |
| WHMIS: Workplace Hazardous Materials Information System (C LC50: Lethal concentration, 50 percent | Canada) |
| vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie | enists (IISA) |
| LCS0: Lethal dose, f50 percent LDS0: Lethal dose, f50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie. OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) | |
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| | USA |