

Safety Data Sheet per OSHA HazCom 2012

| Reviewed on 12/01/20 | |
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| 1 Identification | |
| Product identifier Product name: 3-(Trifluoromethoxy)phenol | |
| Stock number: B20196, L12354 | |
| CAS Number: 827-99-6 | |
| 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. | |
| 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. | |
| H227 Combustible liquid. 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 H227 Combustible liquid. | |
| H315 Causes skin irritation. H319 Causes serious eye irritation. | |
| H335 May cause respiratory irritation. Precautionary statements | |
| P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/sprav. | |
| 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. | |
| P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. | |
| WHMIS classification B3 - Combustible liquid | |
| D2B - Toxic material causing other toxic effects | |
| | |
| Classification system | |
| HMIS ratings (scale 0-4) (Hazardous Materials Identification System) | |
| HEALTH I PIRE 2 Health (acute effects) = 1 Flammability = 2 | |
| REACTIVITY Physical Hazard = 1 | |
| Other hazards Results of PBT and vPvB assessment | |
| PBT: Not applicable. vPvB: Not applicable. | |
| 3 Composition/information on ingredients | ٦ |
| Chemical characterization: Substances CAS# Description: | |
| 827-99-6 3-(Trifluoromethoxy)phenol | |
| 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 pag | e 2) |

Product name: 3-(Trifluoromethoxy)phenol

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:

Flash point:

Not determined 69-70 °C (156-158 °F) Not determined

84 °C (183 °F)

(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 Hydrogen fluoride (HF) Advice for fireficient 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 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:** Keep away from ignition sources. **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: Keep ignition sources away. 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 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: Color: Liauid Colorless Odor: Not determined Odor threshold: Not determined pH-value: Not determined. Change in condition

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Product name: 3-(Trifluoromethoxy)phenol

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| | | (Contd. of page 2) | | | |
| Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: | Not determined. Not determined Not determined Not determined. | | | | |
| Danger of explosion: Explosion limits: Lower: | Product does not present an explosion hazard. Not determined | | | | |
| Upper: Vapor pressure: Density at 20 °C (68 °F): | Not determined Not determined | | | | |
| Relative density Vapor density Evaporation rate | 1.37 g/cm³ (11.433 lbs/gal) Not determined. Not determined. Not determined. | | | | |
| Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water). | Not determined | | | | |
| Viscosity: dynamic: kinematic: | Not determined. Not determined. Not determined. | | | | |
| Kinematic: Other information | Not determined. No further relevant information available. | | | | |
| 10 Stability and reactivity Reactivity No information known. | | | | | |
| Chemical stability Stable under recomr Thermal decomposition / conditions t Possibility of hazardous reactions No | nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications. o dangerous reactions known | | | | |
| Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: | nt information available. ents | | | | |
| Hydrogen fluoride Carbon monoxide and carbon dioxide | | | | | |
| 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 Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno | kin irritation. prious eye irritation. jown. | | | | |
| Germ cen mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. | | | | | |
| Subacute to chronic toxicity: No effect | cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. | | | | |
| 12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further n | ther relevant information available. relevant information available. | | | | |
| Mobility in soil No further relevant inform Additional ecological information: General notes: | rmation available. the environment without proper governmental permits. | | | | |
| Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment | quantities to reach ground water, water course or sewage system. | | | | |
| PBT: Not applicable. | | | | | |
| 13 Disposal considerations | | | | | |
| Waste treatment methods Recommendation Consult state, local c Uncleaned packagings: Recommendation: Disposal must be m | or national regulations to ensure proper disposal. nade according to official regulations. | | | | |
| 14 Transport information Not a hazardous material for transportati | tion. | | | | |
| UN-Number DOT, IMDG, IATA UN proper shipping name | None | | | | |
| UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) | None | | | | |
| DOT, ADR, IMDG, IATA Class | None | | | | |
| Packing group DOT, IMDG, IATA | None | | | | |
| Environmental hazards: Special precautions for user | Not applicable. Not applicable. | | | | |
| | | (Contd. on page 4) | | | |

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| | Reviewed on 12/07/2005 | | | |
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| Product name: 3-(Trifluoromethoxy)phenol | | | | |
| Transport in bulk according to Annex II of MARPOL73 | (Contd. of page 3) (Contd. of page 3) (Contd. of page 3) | | | |
| Transport/Additional information: | Not dangerous according to the above specifications. | | | |
| DOT | | | | |
| Marine Pollutant (DOT): | No | | | |
| 15 Regulatory information | | | | |
| Safety, health and environmental regulations/legislati GHS label elements The product is classified and labele Hazard pictograms | <i>ion specific for the substance or mixture</i> ad in accordance with 29 CFR 1910 (OSHA HCS) | | | |
| GHS07 | | | | |
| P405 Store locked up. P501 Dispose of contents/container in account National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be product must not be used for commercial purposes or in the SARA Section 313 (specific toxic chemical listings) S California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, Substance is not lister Prop 65 - Developmental toxicity, male Substance is not Information about limitation of use: For use only by tee Other regulations, limitations and prohibitive regulati Substance of Very High Concern (SVHC) according to | apours/spray. thing/eye protection/face protection. ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ardance with local/regional/national/international regulations. Arction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricter used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. Substance is not listed. ed. s not listed. tot listed. tot listed. ot list | | | |
| | nent to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not in combination with any other product or process, is the responsibility of the user. | | | |
| Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Societ HMIS: Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPWB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Safety and Health Administration (USA) NTP: National Safety and Health Administration (USA) NAC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) | ty) | | | |

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