

1 Identification

Product identifier Product name: 4-Benzyloxyaniline hydrochloride Stock number: L03346 CAS Number: 51388-20-6 EC number: -170-6 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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known. I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammability = 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: 51388-20-6 4-Benzyloxyaniline hydrochloride Identification number(s): EC number: 257-170-6 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. 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 Methemoglobinemia 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 Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Hydrogen chloride (HCI) Advice for firefighters Protective equipment: Wear self-contained respirator Wear self-contained respirator.

6 Accidental release measures

Wear fully protective impervious suit.

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Product name: 4-Benzyloxyaniline h	nydrochloride	
Environmental precautions: Do not all Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.	andling al protection equipment.	(Contd. of page 1)
Conditions for safe storage, including Storage Requirements to be met by storeroon	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. nditions:	
Control parameters Components with limit values that rec Additional information: No data Exposure controls Personal protective equipment General protective and hygienic meas	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: Not required. sures	
Protection of hands: Impervious gloves	thing immediately. nd of work vorking environment. spirator when high concentrations are present. se for their proper condition. v depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form: Color: Oder:		
Odor: Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	ca 225 °C (ca 437 °F) (dec) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density:	Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined	
Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined. Not applicable. Not applicable. Slightly soluble	
Partition coefficient (n-octanol/water). Viscosity: dynamic: kinematic: Other information	: Not détermined. Not applicable. Not applicable. No further relevant information available.	
Other information 10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomn Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications. o dangerous reactions known	(Contd. on page 3)

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Product name: 4-Benzyloxyaniline hydrochloride		
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Incompatible materials: Oxidizing agents Hazardous decomposition products:		
Carbon monoxide and carbon dioxide		
Nitrogen oxides Hydrogen chloride (HCI)		
Possibly Hydrogen cyanide (HCN)		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data		
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation		
Sensitization: No sensitizing effects known.		
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this mat	terial 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	wn.	
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.		
Subacute to chronic toxicity:	ing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly	
Absorption into the body may lead to the formation or methemogrobin, product death. Onset may be delayed 2-4 hours or longer. Additional toxicological information: To the best of our knowledge the acut	ng cyanosis, and marked fail in blood pressure leading to collapse, coma and possibly	
Additional toxicological information: To the best of our knowledge the acut	e and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available.		
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information:		
Additional ecological information:		
General notes: Do not allow material to be released to the environment without proper govern Do not allow undiluted product or large quantities to reach ground water, wate	imental permits.	
Do not allow undiluted product or large quantities to reach ground water, wate Avoid transfer into the environment.	r course or sewage system.	
Results of PBT and vPvB assessment		
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further relevant information available.		
13 Disposal considerations		
Waste treatment methods	- Para - I	
Recommendation Consult state, local or national regulations to ensure prope Uncleaned packagings:	ir disposai.	
Recommendation: Disposal must be made according to official regulations.		
14 Transport information Not a hazardous material for transportation.		
Not a nazardous material for transportation. 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.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co		
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	
15 Regulatory information		
Safety, health and environmental regulations/legislation specific for the s GHS label elements Not applicable	substance or mixture	
Hazard pictograms Not applicable		
Signal word Not applicable Hazard statements Not applicable		
National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic S	Substances Control Act Chemical Substance Inventory. Use of this product is restricted	
to research and development only. This product must be used by or directly un product must not be used for commercial purposes or in formulations for comr	nder the supervision of a technically qualified individual as defined by TSCA. This	
SARA Section 313 (specific toxic chemical listings) Substance is not listed.		
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed.		
Prop 65 - Developmental toxicity Substance is not listed.		
Prop 65 - Developmental toxicity, female Substance is not listed.		

Prop 65 - Developmental toxicity, male Substance is not listed. **Information about limitation of use:** For use only by technically qualified individuals.

Product name: 4-Benzyloxyaniline hydrochloride

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USA

Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to 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 (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
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 SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Rejetement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association IATA: International Air Transport Association IEINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hearafous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent USD: Lethal concentration, 50 percent USD: Lethal concentration, 50 percent UND: Lethol Concentration Agency for Research on Cancer EPA: Environmental Protection Agency (USA)