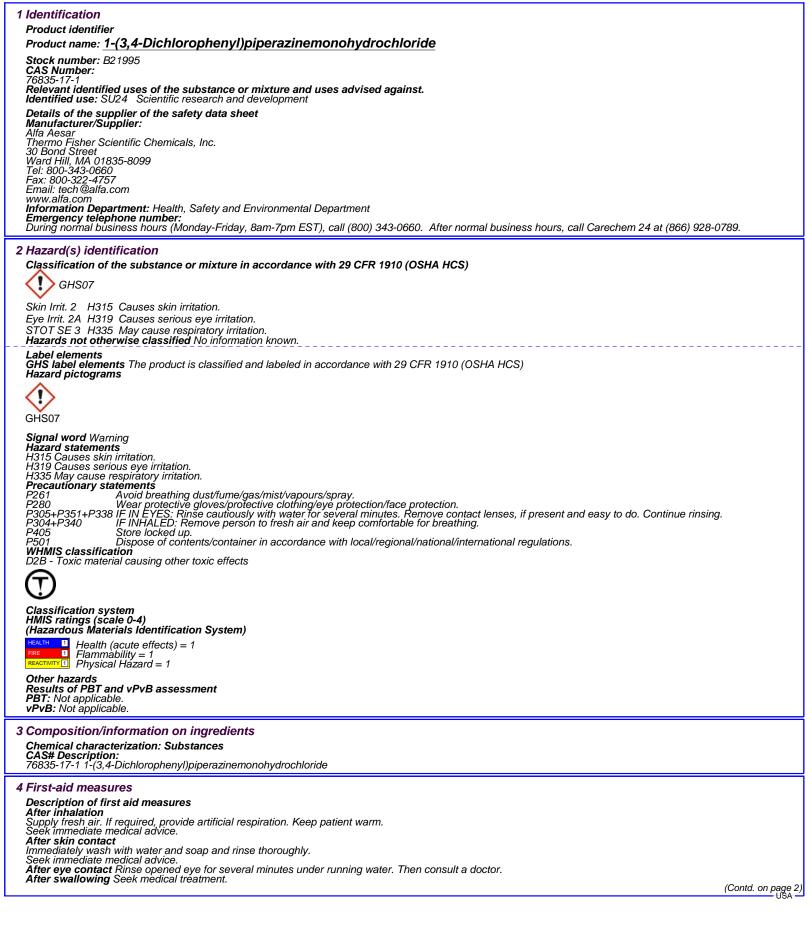


Safety Data Sheet per OSHA HazCom 2012



## Product name: 1-(3,4-Dichlorophenyl)piperazinemonohydrochloride

(Contd. of page 1)

Information for Justice	(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 (HCl) Nitrogen oxides (NOx) 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: 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.				
Store away from water/moisture. Further information about storage conditions: This product is hygroscopic. Store under dry inert gas. Keep container tightly sealed				
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. <b>Specific end use(s)</b> 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. <b>Breathing equipment:</b> Use suitable respirator when high concentrations are present. <b>Protection of hands:</b> 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. Penetration time of glove material (in minutes) Not determined Eve protection: Safety glasses				
Body protection: Protective work clothing.				
9 Physical and chemical properties				
Information on basic physical and chemical properties General Information Appearance: Form: Solid				
Odor:     Not determined       Odor threshold:     Not determined.				
pH-value: Not applicable.				
Change in condition       Melting point/Melting range:       217-220 °C (423-428 °F)         Boiling point/Boiling range:       Not determined         Sublimation temperature / start:       Not determined				
	(Contd. on page 3)			

## Product name: 1-(3,4-Dichlorophenyl)piperazinemonohydrochloride

Page 3/4 Printing date 11/24/2015 Reviewed on 12/11/2008

Flash point:		(Contd. of page 2
Flash point: Elammability (solid, gasoous)		Conta. or page 2
	Not applicable	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water)	Not determined : Not determined.	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
Reactivity No information known. Chemical stability Stable under recommon Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Nitrogen oxides 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for c	t information available.	
Skin irritation or corrosion: Causes sk Eye irritation or corrosion: Causes sel Sonsitization: No sonsitizing offocts kn	rious eye irritation.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	own. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. <b>- repeated exposure:</b> No effects known. <b>- single exposure:</b> May cause respiratory irritation.	
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## Product name: 1-(3,4-Dichlorophenyl)piperazinemonohydrochloride

roduct name: 1-(3,4-DICNIOrOpnenyI)piperazinemo	
	(Contd. of page
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 Code Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marina Ballutant (DOT):	Ma
Marine Pollutant (DOT):	No
5 Regulatory information Safety, health and environmental regulations/legislation s GHS label elements The product is classified and labeled in Hazard pictograms GHS07 Signal word Warning Hazard statements H315 Causes skin irritation.	specific for the substance or mixture accordance with 29 CFR 1910 (OSHA HCS)
H319 Causes serious eye irritation.         H335 May cause respiratory irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapoul         P280       Wear protective gloves/protective clothing         P305+P351+P338 IF IN EYES: Rinse cautiously with water for         P304+P340       IF INHALED: Remove person to fresh air a         P405       Store locked up.         P501       Dispose of contents/container in accordant         National regulations       This product is not listed in the U.S. Environmental Protectior         to research and development only. This product must be used for commercial purposes or in form         SARA Section 313 (specific toxic chemical listings) Substic         California Proposition 65         Prop 65 - Chemicals known to cause cancer Substance is sont listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity female Substance is	or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing. nce with local/regional/national/international regulations. n Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted d by or directly under the supervision of a technically qualified individual as defined by TSCA. This nulations for commercial purposes. tance is not listed. not listed. isted. ically qualified individuals. <b>e REACH Regulations (EC) No. 1907/2006.</b> Substance is not listed. <b>d Annex XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the</b> <b>station for use)</b> Substance is not listed.
information to ensure proper use and protect the health and s	to other information gathered by them, and should make independent judgement of suitability of this safety of employees. This information is furnished without warranty, and any use of the product not in bination with any other product or process, is the responsibility of the user. suses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) (ICAO)

vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA