





(Contd. on page 2)

## Product name: 1-(2,3,4-Trimethoxybenzyl)piperazinedihydrochloride

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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 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 Nitrogen oxides (NOx)		
Nitrogen oxides (NOx) Hydrogen chloride (HCl) Advice for fireficienters		
Advice for firefighters Protective equipment:		
Wear self-contained respirator. Wear fully protective impervious suit.		
6 Accidental release measures Bersonal processions, protective equipment and emergency procedures		
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.		
Ensure adequate ventilation <b>Example 1</b> For the second s		
Methods and material for containment and cleaning up:		
Dispose of contaminated material as waste according to section 13. 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 8 for information on personal protection equipment. See Section 13 for disposal information.		
7 Landling and starsga		
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.		
Addítional information: No data		
Personal protective equipment		
<b>General protective and hygienic measures</b> 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.		
Penetration time of glove material (in minutes) Not determined		
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: Solid		
Odor: Not determined	(Contd. on page 3)	
	USA	

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Odor threshold:	Not determined.		
pH-value: Change in condition	Not applicable.		
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	231-235 °C (448-455 °F) Not determined Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature:	Not applicable Not determined. Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion: Explosion limits: Lower:	Product does not present an explosion hazard. Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density: Relative density	Not determined Not determined		
Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with Water	Not applicable.		
Water: Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity:			
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.		
10 Stability and reactivity Reactivity No information known.	Reactivity No information known.		
Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions No	to be avoided: Decomposition will not occur if used and stored according to specifications.		
Conditions to avoid No further relevant Incompatible materials: Oxidizing age	nt information available.		
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Nitrogen oxides Hydrogen chloride (HCI)			
11 Toxicological information Information on toxicological effects			
Acute toxicity: Toxic if swallowed.	a localities tions		
LD/LC50 values that are relevant for Oral LD50 1550 mg/kg (mouse)			
1700 mg/kg (rat) Skin irritation or corrosion: Causes s	kin irritation		
Eye irritation or corrosion: Causes se	erious eye irritation.		
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Comparentiaty 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 bazard: No effects known			
Subacute to chronic toxicity: The Registry of Toxic Effects of Chemic	cal Substances (RTECS) reports the following effects in laboratory animals:		
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - multiple enzyme effects.			
Cardiac - change in rate. Cardiac - other changes. Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
12 Ecological information			
Toxicity	formation evolable		
Aquatic toxicity: No further relevant in Persistence and degradability No further	ther relevant information available.		
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available.		
Additional ecological information: General notes:			
Do not allow undiluted product or large	the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.		
Avoid transfer into the environment. Results of PBT and vPvB assessment			
<b>PBT:</b> Not applicable. <b>vPvB:</b> Not applicable.			
Other adverse effects No further relev	rant information available.		
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, local	or national regulations to ensure proper disposal.		
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Uncleaned packagings: Recommendation: Disposal must be made according to official regula	(Contd. of page 3) ations.		
<b>14 Transport information</b> Not a hazardous 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 Code Not applicable.			
Transport/Additional information:	Not dangerous according to the above specifications.		
DOT Marine Pollutant (DOT):	No		
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms			
information to ensure proper use and protect the health and safety of e conformance with this Material Safety Data Sheet, or in combination w <b>Department issuing SDS:</b> Global Marketing Department	nformation gathered by them, and should make independent judgement of suitability of this employees. This information is furnished without warranty, and any use of the product not in with any other product or process, is the responsibility of the user. emin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ATA)		

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