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	Version 1
1 Identification	
Product identifier	
Product name: Cyclobenzaprine hydrochloride	
Stock number: H36148 CAS Number: 6202-23-9	
EC number:	
228-264-4 Relevant identified uses of the substance or mixture and uses advised against. Identified uses SU24 - Scientific research and development.	
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	
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 (86	61 0.28 0.780
	0) 920-0709.
2 Hazard(s) identification Cląssification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
\checkmark	
Acute Tox. 3 H301 Toxic if swallowed.	
GHS07	
Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled.	
Label elements	
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06	
Signal word Danger	
Hazard statements H301 Toxic if swallowed.	
H312+H332 Harmful in contact with skin or if inhaled	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves / protective clothing. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P280 Wear protective gloves / protective clothing. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D1B - Toxic material causing immediate and serious toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2 FIRE 1 Flammability = 1	
REACTIVITY] Physical Házard = 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: 6202-23-9 Cyclobenzaprine hydrochloride	
Concentration: <100% Identification number(s):	
EC number: 228-264-4	USA –
	(Contd. on page 2)

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 4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. 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 swallowing Do not induce vomiting; immediately call for medical help. Information for doctor 	(Contd. of page 1)
Most important symptoms and effects, both acute and delayed Harmful if inhaled. Harmful in contact with skin. Toxic if swallowed. 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) Hydrogen chloride (HCl) 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 product to reach sewage system or any water course. 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 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-3: Substance is not listed.	
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: No information known. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data	
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. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to de purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	termine if air- (Contd. on page 3) USA

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Protection of hands:

Indervious gloves 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 with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing. 9 Physical and chemical properties

Information on basic physical and chemical properties General Information Appearance: Form: Solid Not determined Odor: Odor threshold: Not determined pH-value: Not applicable. . Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined. Not determined Not determined Auto igniting: Not determined Danger of explosion: Explosion limits: Lower: Not determined. Not determined Upper: Not determined Vapor pressure: Density: Relative density Vapor density Not applicable. Not determined Not determined. Not applicable. Not applicable. Evaporation rate Solubility in / Miscibility with Water: Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not applicable. Not applicable. No further relevant information available. kinematic: Other information

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: No information known. Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCl) 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful in contact with skin. Toxic if swallowed. Danger through skin absorption. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: Oral LD50 250 mg/kg (mouse) Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell 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: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. 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 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: Concretent potes: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

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Product name: Cyclobenzaprine hydrochloride

Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	(Contd. of page 3)	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
4 Transport information		
UN-Number DOT, IMDG, IATA	UN2811	
UN proper shipping name DOT ADR IMDG, IATA	Toxic solids, organic, n.o.s. (Cyclobenzaprine hydrochloride) 2811 Toxic solids, organic, n.o.s. (Cyclobenzaprine hydrochloride) TOXIC SOLID, ORGANIC, N.O.S. (Cyclobenzaprine hydrochloride)	
Transport hazard class(es) DOT		
Class Label ADR	6.1 Toxic substances 6.1	
Class Label IMDG, IATA	6.1 (T2) Toxic substances 6.1	
Class	6.1 Toxic substances	
Label	6.1 6.1	
Packing group DOT, ADR, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number: Stowage Category	Warning: Toxic substances F-A,S-A A	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	le Not applicable.	
Transport/Additional information:		
Marine Pollutant (DOT):		
UN "Model Regulation":	UN 2811 TOXIC SOLIDS, ORGANIC, N.O.S. (CYCLOBENZAPRINE HYDROCHLORIDE), 6.1, III	
5 Regulatory information Safety, health and environmental regulations/legislation specific for the si GHS label elements The product is classified and labeled in accordance with 2 Hazard pictograms GHS06 Signal word Danger Hazard statements H301 Toxic if swallowed. H312+H332 Harmful in contact with skin or if inhaled. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves / protective clothing. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/na National regulations All components of this product are listed on the Canadian Domestic Substance. This product is not listed in the U.S. Environmental Protection Agency Toxic Su 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 comm SARA Section 313 (specific toxic chemical listings) Substance is not listed.	29 CFR 1910 (OSHA HCS) r breathing. tional/international regulations. s List (DSL). ibstances Control Act Chemical Substance Inventory. Use of this product is restricted der the supervision of a technically qualified individual as defined by TSCA. This iercial purposes.	

SARA Section 313 (specific toxic chemical listings) Substance is not 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.

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Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. 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. 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Information this 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/Revision: Print date, revision date and version number are in the header of each page.
 Abbreviations and acronyms:
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern 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 Agercy for Research on Cancer EPA: Environmental Protection Agercy (USA)
 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

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