



VASUDHA PHARMA CHEM LIMITED

Registered Office : 78/A, Vengalrao Nagar, Hyderabad-500038, Telangana, INDIA.

Phone: +91-40-44763666, 23711717

Fax : +91-40-23811576, 44763636

CIN : U24230TG1994PLC019021

Export Status: STAR EXPORT HOUSE

E-mail : vasudha@vasudhapharma.com

Website : www.vasudhapharma.com

Title	MATERIAL SAFETY DATA SHEET
Name of the Material	CYCLOBENZAPRINE HYDROCHLORIDE

Section 1 - Chemical Product and Company Identification

Product Identification:

Product name : Cyclobenzaprine Hydrochloride

Synonym : NA

Company Identification:

Company name : VASUDHA PHARMA CHEM. LIMITED

Administrative Office : 78/A, VENGALA RAO NAGAR
HYDERABAD – 500 038
A.P, INDIA.

Telephone Numbers : +91-40-2381 2046; 2371 1717

Tele Fax : +91-40-2381 1576

e-mail : vasudha@vasudhapharma.com

Section 2 - Composition, Information on Ingredients

Name	CAS#	% by weight
Cyclobenzaprine Hydrochloride	6202-23-9	100

Section 3 - Hazards Identification

Common Name: Cyclobenzaprine Hydrochloride

Formula: C₂₀H₂₁N . HCl

Synonym: n/f



VASUDHA PHARMA CHEM LIMITED

Registered Office : 78/A, Vengalrao Nagar, Hyderabad-500038, Telangana, INDIA.

Phone: +91-40-44763666, 23711717

Fax : +91-40-23811576, 44763636

CIN : U24230TG1994PLC019021

Export Status: STAR EXPORT HOUSE

E-mail: vasudha@vasudhapharma.com

Website : www.vasudhapharma.com

Title	MATERIAL SAFETY DATA SHEET
Name of the Material	CYCLOBENZAPRINE HYDROCHLORIDE

Chemical Name: 1-Propanamine, 3-(5H-dibenzo[a, d]cyclohepten-5-ylidene)-N, N-dimethyl-, hydrochloride

CAS: 6202-23-9

RTECS Number: HP0875000

Chemical Family: Dibenzo-cycloheptane derivative

Therapeutic Category: Relaxant (muscle)

Composition: Pure Material

Section 4 - First Aid Measures

Inhalation: May cause irritation. Remove to fresh air.

Eye: Causes irritation. Avoid contact. Flush with copious quantities of water for at least 15 minutes.

Skin: May cause irritation. Flush with copious quantities of water.

Ingestion: May cause irritation and toxicity. Flush out mouth with water. This material is slowly but almost completely absorbed from

the gastrointestinal tract. Effects begin in 1 hour and may last between 12 and 24 hours.

General First Aid Procedures: Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity

(anaphylactic) reactions must receive immediate medical attention. If person is not breathing give

artificial respiration. If breathing is difficult give oxygen. Obtain medical attention.

Note to Physicians

Overdose Treatment: Treatment of cyclobenzaprine overdose should be symptomatic and supportive and may include the following:

1. Empty the stomach and decrease absorption via gastric lavage or activated charcoal.



VASUDHA PHARMA CHEM LIMITED

Registered Office : 78/A, Vengalrao Nagar, Hyderabad-500038, Telangana, INDIA.

Phone: +91-40-44763666, 23711717

Fax : +91-40-23811576, 44763636

CIN : U24230TG1994PLC019021

Export Status: STAR EXPORT HOUSE

E-mail : vasudha@vasudhapharma.com

Website : www.vasudhapharma.com

Title	MATERIAL SAFETY DATA SHEET
Name of the Material	CYCLOBENZAPRINE HYDROCHLORIDE

2. For severe or life-threatening anticholinergic effects use physostigmine salicylate. Repeat dose as required if symptoms persist. Physostigmine is only recommended for severe cases due to its toxicity.
3. For cardiac arrhythmia administer neostigmine, pyridostigmine, or propranolol.
4. For cardiac failure consider a short acting digitalis preparation. Close monitoring of cardiac function for at least five days is recommended.
5. For convulsions administer an appropriate anticonvulsant. Benzodiazepines are most often used; however, this is recommended only in a medical setting with respiration and resuscitation support available.
6. Supportive measures include maintaining open airway, maintaining adequate fluid intake, regulating body temperature, and treating circulatory shock, convulsions, and metabolic acidosis as necessary.
7. Dialysis is probably of no value in removing cyclobenzaprine hydrochloride from the body.

Section 5 - Fire Fighting Measures

Extinguisher Media: Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

Firefighting Procedures: As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Fire and Explosion Hazards: This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.



VASUDHA PHARMA CHEM LIMITED

Registered Office : 78/A, Vengalrao Nagar, Hyderabad-500038, Telangana, INDIA.

Phone: +91-40-44763666, 23711717

Fax : +91-40-23811576, 44763636

CIN : U24230TG1994PLC019021

Export Status: STAR EXPORT HOUSE

E-mail: vasudha@vasudhapharma.com

Website : www.vasudhapharma.com

Title	MATERIAL SAFETY DATA SHEET
Name of the Material	CYCLOBENZAPRINE HYDROCHLORIDE

Section 6 - Accidental Release Measures

Spill Response: Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labeled container for disposal. Wash spill site.

Section 7 - Handling and Storage

Handling: As a general rule, when handling USP Reference Standards avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Engineering controls such as exhaust ventilation are recommended.

Respiratory Protection: Use a NIOSH approved respirator, if it is determined to be necessary by an industrial hygiene survey involving air monitoring. In the event that a respirator is not required, an approved dust mask should be used.

Gloves: Chemically compatible

Eye Protection: Safety glasses or goggles

Protective Clothing: Protect exposed skin.

Exposure Limits: Industry: TWA: 0.08 mg/m³



VASUDHA PHARMA CHEM LIMITED

Registered Office : 78/A, Vengalrao Nagar, Hyderabad-500038, Telangana, INDIA.

Phone: +91-40-44763666, 23711717

Fax : +91-40-23811576, 44763636

CIN : U24230TG1994PLC019021

Export Status: STAR EXPORT HOUSE

E-mail : vasudha@vasudhapharma.com

Website : www.vasudhapharma.com

Title	MATERIAL SAFETY DATA SHEET
Name of the Material	CYCLOBENZAPRINE HYDROCHLORIDE

Section 9 - Physical and Chemical Properties

Appearance and Odor: White to off-white crystalline powder; odorless.

Odor Threshold: n/f

pH: n/f

Melting Range: 216 - 218°C

Boiling Point: n/f

Flash Point: n/f

Autoignition

Temperature: n/f

Evaporation Rate: n/f

Upper Flammability Limit: n/f

Lower Flammability Limit: n/f

Vapor Pressure: n/f

Vapor Density: n/f

Specific Gravity: n/f

Solubility in Water: Freely

soluble **Fat Solubility:** n/f

Other Solubility: Freely soluble in alcohol and in methanol; sparingly soluble in isopropanol; slightly soluble in chloroform and in methylene chloride; insoluble in hydrocarbons

Partition Coefficient: n-octanol/water: n/f

Percent Volatile: n/f

Reactivity in Water: n/f

Explosive Properties: n/f

Oxidizing Properties: n/f

Formula: C₂₀H₂₁N . HCl



VASUDHA PHARMA CHEM LIMITED

Registered Office : 78/A, Vengalrao Nagar, Hyderabad-500038, Telangana, INDIA.

Phone: +91-40-44763666, 23711717

Fax : +91-40-23811576, 44763636

CIN : U24230TG1994PLC019021

Export Status: STAR EXPORT HOUSE

E-mail : vasudha@vasudhapharma.com

Website : www.vasudhapharma.com

Title	MATERIAL SAFETY DATA SHEET
Name of the Material	CYCLOBENZAPRINE HYDROCHLORIDE

Section 10 - Stability and Reactivity

Conditions to Avoid: n/f

Incompatibilities: n/f

Decomposition Products: When heated to decomposition material emits toxic fumes of NO_x and HCl. Emits toxic fumes under fire conditions.

Hazardous Polymerization? No

Section 11 - Toxicological Information

Oral Rat: LD50: 425 mg/kg

Oral Mouse: LD50: 375 mg/kg

Other Toxicity Data: n/f

Irritancy Data: Animal (species not specified)/eye: severe; Animal (species not specified)/skin: non-irritant

Corrosivity: n/f

Sensitization Data: n/f

NTP: No **IARC:** No **OSHA:** No **Listed**

Other Carcinogenicity Data: Cyclobenzaprine did not show evidence of carcinogenicity in an 81-week study in mice or in a 105-week study in rats.

Mutagenicity Data: Male rats receiving up to 20 times the human dose of cyclobenzaprine showed no evidence of mutagenicity.

Reproductive and Developmental Effects: Studies in rats, mice and rabbits have not shown that cyclobenzaprine has adverse effects on the fetus when given doses up to 20 times the human dose. There was no evidence of impaired fertility in male or female rats receiving up to 10 times the human dose of cyclobenzaprine.



VASUDHA PHARMA CHEM LIMITED

Registered Office : 78/A, Vengalrao Nagar, Hyderabad-500038, Telangana, INDIA.

Phone: +91-40-44763666, 23711717

Fax : +91-40-23811576, 44763636

CIN : U24230TG1994PLC019021

Export Status: STAR EXPORT HOUSE

E-mail : vasudha@vasudhapharma.com

Website : www.vasudhapharma.com

Title	MATERIAL SAFETY DATA SHEET
Name of the Material	CYCLOBENZAPRINE HYDROCHLORIDE

Section 12 - Ecological Information

Ecological Information: Very toxic to freshwater and marine organisms.

Section 13 - Disposal Considerations

Disposal: Dispose of waste in accordance with all applicable Federal, State and local laws.

Section 14 - Transport Information

As per IATA not regulated.

Section 15 - Regulatory Information

U.S. Regulatory Information: n/f

International Regulatory Information: EINECS # 228-264-4

Hazard Code: Xn

Risk Phrases: R20/21/22, R36

Safety Phrases: S36



VASUDHA PHARMA CHEM LIMITED

Registered Office : 78/A, Vengalrao Nagar, Hyderabad-500038, Telangana, INDIA.

Phone : +91-40-44763666, 23711717

Fax : +91-40-23811576, 44763636

CIN : U24230TG1994PLC019021

Export Status: STAR EXPORT HOUSE

E-mail : vasudha@vasudhapharma.com

Website : www.vasudhapharma.com

Title	MATERIAL SAFETY DATA SHEET
Name of the Material	CYCLOBENZAPRINE HYDROCHLORIDE

Section 16 – Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Vasudha Pharma Chem Ltd be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Vasudha Pharma Chem Ltd has been advised of the possibility of such damages.