



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the product

Product name: Chlorpromazine Hydrochloride

CAS Number: 69-09-0

Synonyms: 2-Chloro-10-(3-dimethylaminopropyl)phenothiazine hydrochloride;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

For research use, Manufacture of substances

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: R L Fine Chem Pvt. Ltd.

No. 15, KHB Industrial Area,
Yelahanka, Bengaluru- 560 064
Karnataka, India

Web site address: www.rlfinechem.com

Email Address: sales@rlfinechem.com

1.4 Emergency telephone number: 080-42488999

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 2), H330

2.2 Label Elements:

Labeling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP): Danger

Hazard statements (CLP):

H301 - Toxic if swallowed

H330 - Fatal if inhaled

Precautionary statements (CLP):

P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P284 - Wear respiratory protection.

P301+ P310 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Photosensitizer.

3. Composition/Information on Ingredients

3.1 Substances

Composition:

Name	CAS No.	% by Weight (Concentration)
Chlorpromazine Hydrochloride	69-09-0	100

Synonyms : 2-Chloro-10-(3-dimethylaminopropyl)phenothiazine hydrochloride;
Aminazin monohydrochloride * ampliactil monohydrochloride * chlorazin* Chlorpromazine monohydrochloride * chlorpromazinium chloride * cpz *10-(3-dimethylaminopropyl)-2-chlorophenothiazine monohydrochloride *Hebanil * hibernal * klorproman * klorpromex * largactilMonohydrochloride * nci-c05210 * neurazine * norcozine *Phenothiazine hydrochloride * 10h-phenothiazine-10-propanamine, 2-Chloro-n,n-dimethyl-, monohydrochloride * plegomazin * promacid *Promapar * propaphen * propaphenin hydrochloride * 4560 rp Hydrochloride * sonazine * taroctyl * thorazine hydrochloride *

Formula : C₁₇H₁₉ClN₂S · HCl

Molecular weight : 355.33 g/mol

CAS-No. : 69-09-0

EC-No. : 200-701-3

3.2 Mixtures

Not applicable

4. First aid measures

4.1 Description of the first aid

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

5. Fire-fighting measures

5.1 Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), full protective gear to prevent contact with skin and eyes.

5.4 Further information:

Flash point: No data available

Explosive limits: No data available

Auto ignition Point: No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Person related safety precautions:



Wear protective equipment. Keep unprotected persons away

Ensure adequate ventilation. Avoid formation of dust. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Use respiratory device against the effects of fumes/dust/aerosol.

6.2 Environmental Precautions: DO not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Take steps to avoid release into the environment, if safe to do so. Discharge into environment



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

must be avoided..

6.3 Methods and Material for Containment and Cleaning up: Transfer to a chemical waste container for disposal in accordance with local regulations. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling:

Avoid contact with skin and eyes. Prevent formation of dust and aerosols. Any deposit of dust which cannot be avoided must be regularly removed. Ensure good ventilation/exhaust at the work place. Avoid inhalation of dust. Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store container tightly sealed at a cool and dry place with sufficient ventilation.

Store away from food stuffs. Protect from exposure to light. Protect from heat (steam pipes, radiators etc), open flames and other ignition sources and direct sun light.

Storage class (TRGS 510): Combustible solids, toxic

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

8.1 Control Parameters: No data available.

8.2 Exposure Controls:

8.2.1 Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.2.2 Personal Protective Equipment:

Keep away from food stuffs, beverages and feed. Do not eat or during while working.

Wash hands before break and at the end of work. Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Wear appropriate niosh/msha-approved respirator, chemical-resistant Safety shower and eye bath.

Do not get in eyes, on skin, on clothing.



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

Avoid prolonged or repeated exposure.

Wash thoroughly after handling. Wash contaminated clothing before reuse.

Breathing equipment:

At formation of dust

IN CASE OF UNINTENDED RELEASE:



In case of brief exposure, use dust and vapor respirator. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device : Filter P2

Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out. E.g. retention and or local exhaust.

Protection of hands:

Chemical resistant gloves

The glove material has to be impermeable and resistant to the product /the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of Gloves:

For un-dissolved solid substances following material may be suitable:

Nitrile rubber (NBR), Butyl rubber (BR), Fluorocarbon rubber (FKM) and polypropylene rubber (CR).

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material :

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

9.1 Information on Basic Physical and Chemical Properties

Form : Crystalline Powder

Color : White or slightly yellow Odor : Odorless

Melting range : 194-196°C

Boiling range : Not determined

Flash point : Not applicable

Auto-ignition temperature : No data available

Density: Not determined.

Bulk density at ~ 20°C: No data available

Solubility or miscibility with water at ~ 20°C : Soluble

Ethanol –Soluble

Methanol – Soluble

Segregation coefficient (Octanol/water): not available

pH (5% solution): 4.0 – 5.5 [Reference: Merck Index]

9.2 Other Information:

Danger of Explosion: Product is not explosive. However formation of explosive air-dust mixture is possible.

10. Stability and reactivity

10.1 Reactivity: No data available.

10.2 Chemical stability: Stable under recommended storage condition

10.3 Possibility of hazardous reactions/Polymerization: Will not occur.

10.4 Conditions to avoid: No data available.

10.5 Incompatibility materials to avoid: Strong Oxidizing agents



R L Fine Chem Pvt. Ltd.

www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

10.6 Hazardous decomposition or Byproducts: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas.

Other decomposition products - No data available

In the event of fire: see section 5.

11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity

Skin corrosion/irritation: May be harmful if absorbed through the skin.

Serious eye damage/eye irritation: Causes eye and skin irritation.

Respiratory or skin sensitisation: May be fatal if inhaled. Material is irritating to mucous membranes and upper Respiratory tract.

Other effects: Harmful if swallowed.

Prolonged or repeated exposure may cause allergic reactions in certain Sensitive individuals.

Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sun burn like responses to edematous, vesiculated lesions or bullae. symptoms of overexposure can include drowsiness, jaundice, Agranulocytosis, eosinophilia, leukopenia, hemolytic anemia, aplastic Anemia, thrombocytopenic purpura, pancytopenia, tachycardia, Hypotension, dystonia, tardive dyskinesia, pseudo-parkinsonism, motorrestlessness, urticaria, photosensitivity, exfoliative dermatitis, contact dermatitis, constipation, urinary retention, adynamic ileus, Priapism, miosis, mydriasis, cerebral edema, ocular changes, Hyperpyrexia.

Germ cell mutagenicity: No data available(Chlorpromazine hydrochloride)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available(Chlorpromazine hydrochloride)

Specific target organ toxicity - single exposure No data available(Chlorpromazine hydrochloride)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard: No data available(Chlorpromazine hydrochloride)

Drowsiness, Agranulocytosis.(Chlorpromazine hydrochloride)

Chronic effects

Target organ(s): Central nervous system, Blood, Liver, Skeletal muscle

Rtecs #: so1750000



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

Phenothiazine, 2-chloro-10-(3-(dimethylamino)propyl)-, Monohydrochloride

Toxicity data

LD50 orally in rats: 225 mg/kg (Goldenthal) (Merck Index Manograph 2204, Vol 13)

Other toxicity data

Orl-rat ld50: 145 mg/kg jpetab 148,151,1965
Ihl-rat lc50: 40 mg/m³/2h 85jcae -,1106,1986
Ipr-rat ld50: 62 mg/kg psypag 12,142,1968
Ivn-rat ld50: 25 mg/kg fazmae 5,269,1963
Unr-rat ld50: 90 mg/kg 27zqag -,15,1972
Orl-mus ld50: 135 mg/kg cpbtal 24,1179,1976
Ihl-mus lc50: 40 mg/m³/2h 85jcae -,1106,1986
Ipr-mus ld50: 92200 ug/kg txapa9 2,558,1960
Scu-mus ld50: 420 mg/kg bjpcal 22,301,1964
Ivn-mus ld50: 20 mg/kg arznad 21,808,1971
Ivn-rbt ld50: 5 mg/kg 27zqag -,15,1972
Ipr-gpg ld50: 109 mg/kg pharat 38,749,1983
Scu-gpg ld50: 420 mg/kg aiptak 137,375,1962
Ipr-ckn ld50: 160 mg/kg txapa9 2,558,1960
Ivn-ckn ld50: 28 mg/kg txapa9 2,558,1960

Target organ data

Behavioral (somnia)

Behavioral (excitement)

Behavioral (anorexia, human)

Behavioral (muscle weakness)

Behavioral (rigidity)

Behavioral (irritability)

Behavioral (alteration of classical conditioning)

Cardiac (pulse rate increased without fall in bp)

Lungs, thorax or respiration (respiratory stimulation)

Gastrointestinal (other changes)

Skin and appendages (sweating)

Paternal effects (testes, epididymis, sperm duct)

Paternal effects (other effects on male)

Maternal effects (postpartum)

Effects on fertility (mating performance)

Effects on fertility (post-implantation mortality)

Effects on fertility (litter size)

Effects on embryo or fetus (extra embryonic structures)

Effects on embryo or fetus (cytological changes)

Effects on embryo or fetus (fetotoxicity)

Effects on embryo or fetus (fetal death)



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

Effects on embryo or fetus (other effects to embryo or fetus)
Specific developmental abnormalities (central nervous system)
Specific developmental abnormalities (eye, ear)
Specific developmental abnormalities (craniofacial)
Specific developmental abnormalities (musculoskeletal system)
Specific developmental abnormalities (gastrointestinal system)
Specific developmental abnormalities (urogenital system)
Effects on newborn (stillbirth)
Effects on newborn (live birth index)
Effects on newborn (weaning or lactation index)
Effects on newborn (growth statistics)
Effects on newborn (biochemical and metabolic)
Effects on newborn (behavioral)

12. Ecological information

12.1 Toxicity: No data available

12.2 Persistence and Degradability: No data available

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: Data not available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste Disposal Method: Product Recommendation:



Must not be disposed of together with household garbage. DO not allow product to reach sewage system. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Must be recycled or disposed of according to the rules. Waste has to be classified according to the European waste catalogue based on the identification of the waste generating source.



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

Uncleaned packaging's:

Recommendations: Observe all federal, state and local environmental regulations.

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging: Dispose of as unused product.

14. Transport information

Chlorpromazine Hydrochloride is DGR cargo. It is safe to transport this material by air/sea or road cargo.

14.1 UN Number:

ADR/RID: 2811; IATA: 2811; IMDG: 2811

14.2 UN proper shipping name:

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (Chlorpromazine hydrochloride)

IATA: Toxic solid, organic, n.o.s. (Chlorpromazine hydrochloride)

IMDG: TOXIC SOLID, ORGANIC, N.O.S. (Chlorpromazine hydrochloride)

14.3 Transport hazard class:

ADR/RID: 6.1; IATA: 6.1; IMDG: 6.1

14.4 Packing group:

ADR/RID: I; IATA: I; IMDG: I

14.5 Environmental hazard:

ADR/RID: No; IATA: No; IMDG: No

14.6 Special precautions for user

No data available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorisations and /or restrictions on use: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment was not carried out.



R L Fine Chem Pvt. Ltd.
www.rlfinechem.com

Safety Data Sheet

Product name: Chlorpromazine Hydrochloride

(as Per 1907/2006 EC, Article 31)

16. Other information:

This information is based on our knowledge at the time of issuing this MSDS. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:

R L Fine Chem Pvt. Ltd.

No 15, KHB Industrial Area

Yelahanka, Bengaluru -560 064, India

Tel:0091-80-46596888, 4248 8999 Fax:0091-80-28566630

Email: sales@rlfinechem.com

Contact: Dr. Ramesha A. R.