

1.1. Product Name
1.2. Chemical Formula
1.3. Use
1.4. Manufacturer
: Stable Bleaching Powder
(Calcium Hypochlorite)
: Ca(OCl)₂
: Disinfections, Sanitation, Bleaching
Oxidation, etc.

1.5. Supplier :

2. COMPOSITION & IDENTIFICATION INGREDIENTS

2.1. Chemical Identity
2.2. Ingredients
: Calcium Hypo Chlorite
: Calcium Hypo Chlorite
35% Available Chlorine

3. HAZARD IDENTIFICATION

3.1. Oxidizing Substance, Class - 5.1

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

4. FIRST – AID MEASURES

4.1. Skin and Eye Contact : Promptly wash the affected area with plenty of water and obtain medical attention immediately.

: Move the victim to fresh Air, obtain medical attention. In case of respiratory failure provide artificial respiration.

: Have victim rinse mouth thoroughly with water & drink plenty of water to dilute material in the stomach. But never give anything by mouth if victim is unconscious. Obtain medical attention immediately.

4.2. Inhalation

4.3. Ingestion

5. FIRE FIGHTING MEASURES

5.1. Extinguishing Media

5.2. Unsuitable Extinguishing Media

5.3. Special Exposure Hazards

5.4. Special Protective Equipment

5.5. Combustion Products

: Water

: Not Known

: Chlorine Gas

: Self contained Breathing Apparatus

: Non Combustible but decomposes due to heat

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions : Avoid Eye & Skin contact. Avoid inhalation. Use appropriate personal protective equipments.

: Prevent material entering to sewers or confined spaces.

: Do not touch spilled material. Prevent it entering sewers. Dry manual lifting of spilled material is suggested.

6.2. Environmental Precautions

6.3. Clean up procedure

7. HANDLING AND STORAGE

7.1. Handling Precautions

7.2. Storage

: Avoid generating dust. Avoid skin & eye contact. General ventilation is required.

: Store tightly closed containers in cool, dry & well-ventilated place. Keep away from sunlight. Keep away from combustible materials.

7. HANDLING AND STORAGE

7.3. Incompatible Materials

7.4. Other Information

: Acids, organic compounds, Metal oxides, Ammonia, urea & amines etc.

: The storage area should have a noncombustible & corrosion resistant floor.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Exposure Controls : Adequate ventilation. Process or Personnel enclosures, P.P.E. etc. Avoid dust generation.

:

: Anti Dust mask & Respirator with an acid gas cartridge for chlorine.

: Chemical Safety Goggles & face shield

: Impervious rubber hand gloves, coveralls, boots etc.

: Wash hands with soap & water thoroughly after handling, especially before eating. Also change contaminated clothing.

8.2. Personal Protective Equipment

8.2.1. Respiratory Protection

8.2.2. Eye Protection

8.2.3. Skin Contact

8.2.4. Hygiene Measures

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance

9.1.1. Form

9.1.2. Colour

9.1.3. Odour

9.2. Safety Data

9.2.1. pH

9.2.2. Boiling Point

9.2.3. Melting Point

9.2.4. Flash Point (Closed Cup)

9.2.5. Flammability (Solid, Gas)

9.2.6. Auto flammability

9.2.7. Explosive Properties

9.2.8. Oxidising Properties

9.2.9. Vapour Pressure

9.2.10. Bulk Density

: 11.5 (5% Solution)

: Not Applicable

: Decomposes at temperatures above 100 degree C

: Not Applicable

: Not Combustible

: Not Applicable
: Strong Oxidising Agent, so it has serious fire and explosion risk
: Strong Oxidiser
: Not Applicable
: 0.9 – 1.1 gm/cc
: Powder
: White
: Chlorine Odour

9. PHYSICAL AND CHEMICAL PROPERTIES

9.2.11. Solubility

In water

In solvents

9.2.12. Partition coefficient

(Water)

9.3. Other Data

9.3.1. Vapour Density

9.3.2. Evaporation Rate

9.3.3. Conductivity

9.3.4. Viscosity

9.3.5. Volatiles

10. STABILITY AND REACTIVITY

10.1. Stability : Normally unstable (losses available chlorine by 2% on heating at 100 degree C).

: Reactive

: Excessive Heat

: Incompatible Materials (See 7.3)

: Nacent Oxygen, Chlorine, Calcium

Chlorate

: Not Applicable

: Not Applicable

: Not Known

: Not Applicable

: Non Known

: 23.4 gms/100 ml. Water at 40 degree C

: Not Known

: Not Known

10.2. Reactivity

10.3. Conditions to avoid

10.4. Materials to avoid

10.5. Hazardous decomposition

(Products)

11. TOXICOLOGICAL INFORMATION

11.1. Health Effects

11.1.1. Skin & Eye

11.1.2. Inhalation

11.1.3. Ingestion

: Dust can cause eye irritation. Solution can cause chemical burns.

: Dust may irritate nose, throat & upper respiratory tract.

: May cause burns to the mouth & digestive tract.

: Skin irritation may occur from repeated or prolonged skin contact.

: 805 mg/Kg.

11.2. Other effects

11.3. LD₅₀ Oral (Rat)

12. ECOLOGICAL INFORMATION

12.1. Mobility : No

12. ECOLOGICAL INFORMATION

12.2. Persistence and Degradability

12.3. Bioaccumulative Potential

12.4. Ecotoxicity

12.5. Behaviour in Sewage

13. DISPOSAL CONSIDERATIONS

13.1. Product Disposal : Untreated SBP waste must never be discharged directly in to sewers.

Review National / Regional regulations

: Packing material does not get contaminated & can be disposed off by usual methods in accordance with National or Regional requirement.

: Degradable

: Not determined

: Non-Toxic

: Improves sewage quality.

13.2. Packaging Disposal

14. TRANSPORT INFORMATION

14.1. UN No. & Symbols

14.2. Road and Rail Transport

(ADR/RID)

14.3. GGVE / GGVS

14.4. IMDG Code

14.5. Air Transport (ICAO/IATA)

14.6. P Phrases

14.7. S Phrases

15. REGULATORY INFORMATION

15.1. Health and Safety Information on Labels

15.2. RTECS

16. OTHER INFORMATION

The information & data contained in the "Material Safety Data Sheet" is drawn from following sources:

a) CIS (No. C40) of Indian Chemical Manufactures Association

b) CHEMINFO of Canadian Centre of Occupational Health & Safety.

c) Our own experience.

: Oxidising Material Class – 5.1

: Not Known

: 2208, "Oxidizing Substance".

: Not Known

: Not Known

: Not Known

: Not Known

: Not Known

: Not Known