

GRASIM INDUSTRIES LIMITED CHEMICAL DIVISION

BIRLAGRAM, NAGDA (M.P.)

MATERIAL SAFETY DATA SHEET

STABLE BLEACHING POWDER

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1. Product Name Stable Bleaching Powder

(Calcium Hypochlorite)

1.2. Chemical Formula : Ca (OCI)2

1.3. Use : Disinfections, Sanitation, Bleaching

Oxidation, etc.

1.4. Manufacturer **GRASIM INDUSTRIES LIMITED**

CHEMICAL DIVISION

BIRLAGRAM, NAGDA (M.P.) INDIA

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1.5. Supplier

2. COMPOSITION & IDENTIFICATION INGREDIENTS

: Calcium Hypo Chlorite 2.1. Chemical Identity 2.2. Ingredients Calcium Hypo Chlorite

35% Available Chlorine

3. HAZARD IDENTIFICATION

3.1. Oxidising Substance, Class - 5.1

4. FIRST - AID MEASURES

4.1. Skin and Eye Contact : Promptly wash the affected area with

plenty of water and obtain medical

attention immediately.

4.2. Inhalation Move the victim to fresh Air, obtain

> medical attention. In case of respiratory failure provide artificial respiration.

4.3. Ingestion 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.

5. FIRE FIGHTING MEASURES

5.1. Extinguishing Media Water

5.2. Unsuitable Extinguishing Media Not Known

5.3. Special Exposure Hazards Chlorine Gas

5.4. Special Protective Equipment : Self contained Breathing Apparatus

5.5. Combustion Products 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.

6.2. Environmental Precautions Prevent material entering to sewers or

confined spaces.

Do not touch spilled material. Prevent it 6.3. Clean up procedure

entering sewers. Dry manual lifting of

spilled material is suggested.

7. HANDLING AND STORAGE

7.1. Handling Precautions Avoid generating dust. Avoid skin & eye contact. General ventilation is required.

Store tightly closed containers in cool,

7.2. Storage

dry & well-ventilated place. Keep away

from sunlight. Keep away from

combustible materials.

7. HANDLING AND STORAGE

7.3. Incompatible Materials : Acids, organic compounds, Metal

oxides, Ammonia, urea & amines etc.

7.4. Other Information : The storage area should have a non-

combustible & 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.

8.2. Personal Protective Equipment :

8.2.1. Respiratory Protection : Anti Dust mask & Respirator with an

acid gas cartridge for chlorine.

8.2.2. Eye Protection : Chemical Safety Goggles & face shield

8.2.3. Skin Contact : Impervious rubber hand gloves,

coveralls, boots etc.

8.2.4. Hygiene Measures : Wash hands with soap & water

thoroughly after handling, especially

before eating. Also change contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance

9.1.1. Form : Powder 9.1.2. Colour : White

9.1.3. Odour : Chlorine Odour

9.2. Safety Data

9.2.1. pH : 11.5 (5% Solution)

9.2.2. Boiling Point : Not Applicable

9.2.3. Melting Point : Decomposes at temperatures above

100 degree C

9.2.4. Flash Point (Closed Cup) : Not Applicable9.2.5. Flammability (Solid, Gas) : Not Combustible9.2.6. Auto flammability : Not Applicable

9.2.7. Explosive Properties : Strong Oxidising Agent, so it has

serious fire and explosion risk

9.2.8. Oxidising Properties : Strong Oxidiser 9.2.9. Vapour Pressure : Not Applicable 9.2.10. Bulk Density : 0.9 – 1.3 gm/cc

9. PHYSICAL AND CHEMICAL PROPERTIES

9.2.11. Solubility

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

In solvents : Not Known 9.2.12. Partition coefficient : Not Known

(Water)

9.3. Other Data

9.3.1. Vapour Density : Not Applicable 9.3.2. Evaporation Rata : Not Applicable : Not Known 9.3.3. Conductivity 9.3.4. Viscosity : Not Applicable 9.3.5. Volatiles : Non Known

10. STABILITY AND REACTIVITY

10.1. Stability Normally unstable (losses available

chlorine by 2% on heating at 100

degree C).

: Reactive 10.2. Reactivity

10.3. Conditions to avoid : Excessive Heat

10.4. Materials to avoid : Incompatible Materials (See 7.3) 10.5. Hazardous decomposition

(Products)

: Nacent Oxygen, Chlorine, Calcium

Chlorate

11. TOXICOLOGICAL INFORMATION

11.1. Health Effects

11.1.1. Skin & Eye : Dust can cause eye irritation. Solution

can cause chemical burns.

11.1.2. Inhalation : Dust may irritate nose, throat & upper

respiratory tract.

: May cause burns to the mouth & 11.1.3. Ingestion

digestive tract.

11.2. Other effects : Skin irritation may occur from repeated

or prolonged skin contact.

11.3. LD₅₀ Oral (Rat) : 805 mg/Kg.

12. ECOLOGICAL INFORMATION

12.1. Mobility : No

12. ECOLOGICAL INFORMATION

12.2. Persistence and Degradability : Degradable12.3. Bioaccumulative Potential : Not determined

12.4. Ecotoxicity : Non-Toxic

12.5. Behaviour in Sewage : Imporves sewage quality.

13. DISPOSAL CONSIDERATIONS

13.1. Product Disposal : Untreated SBP waste must never be

discharged directly in to sewers.

Review National / Regional regulations

13.2. Packaging Disposal : Packing material does not get

contaminated & can be disposed off by usual methods in accordance with National or Regional requirement.

14. TRANSPORT INFORMATION

14.1. UN No. & Symbols : 2208, "Oxidizing Substance".

14.2. Road and Rail Transport : Not Known

(ADR/RID)

14.3. GGVE / GGVS : Not Known
14.4. IMDG Code : Not Known
14.5. Air Transport (ICAO/IATA) : Not Known
14.6. P Phrases : Not Known
14.7. S Phrases : Not Known

15. REGULATORY INFORMATION

15.1. Health and Safety Information on : Oxidising Material Class – 5.1

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15.2. RTECS : Not Known

16. OTHER INFORMATION

The information & date contained in the "Material Safety Date 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.

NOTE:

Above "Material Safety Date Sheet" is for information only. GRASIM INDUSTRIES LIMITED, Chemical Division does not take any guarantee or legal liability under any circumstances for the same. The Physical data presented herein does not purport to be the specifications.