

# ON SITE EMERGENCY PLAN



## GUJARAT ALKALIES AND CHEMICALS LIMITED

### MATERIAL SAFETY DATA SHEET

#### STABLE BLEACHING POWDER

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#### 1. IDENTIFICATION

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Trade Marks and Synonyms	Stable Bleaching Powder
Chemical Name and Synonyms	Calcium Hypochlorite
Physical Form	White Powder having characteristic chlorine odour
Molecular Formula	Ca (OCl) <sub>2</sub>
Manufacturer Name & Address	Gujarat Alkalies and Chemicals Limited P.O. Dahej, Tal. Vagra, Dist. Bharuch (Gujarat), INDIA Telephone: +91-2641-256315/6/7

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#### 2. INFORMATION OF MAJOR INGREDIENTS

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Chemical Name	Calcium Hypo Chlorite
CAS No	7782-50-5
Formula	Ca (OCl) <sub>2</sub>

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#### 3. HAZARDOUS IDENTIFICATION

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Main Risk	Contact with combustible materials may cause fire
Contact with Skin	Causes irritation, on contact for small duration
Contact with eyes	Causes irritation
Safety Phases	Keep out of reach of children. In case of contact with skin, wash immediately with plenty of water.

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#### 4. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance and Odour	Powder, White solid with odour of chlorine
pH	11.5 (5% solution)
Chlorine Content	Min. 35% m/m

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Bulk Density	0.8 – 1.2 gm/cc at 20 °C
Boiling Point	Not applicable
Melting Point	Decomposes at temperature above 100 °C
Flash Point	Not applicable
Auto Ignition	Not applicable
Flammable Limit	Not applicable
Vapour Pressure (mmHg)	Not applicable
Solubility in Water	23.4 gm/100 ml water at 40 °C
Oxidizing / Explosive Properties risks	<b>Strong Oxidizer</b> , so it has serious fire and explosive risks

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### 5. STABILITY AND REACTIVITY

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Stability	Normally unstable (losses available chlorine by 2% on heating above 100 °C)
Conditions to avoid	Excessive heat and moisture
Materials to avoid urea	Acids, Organic compounds, metal oxides, ammonia, & amines etc.
<b>Reactivity</b>	
Air	Release chlorine gas
Water	A risk explosion or toxic gas formation
Acids	Highly reactive with a risk of explosion & toxic gas formation
Alkalis	Reactive
Hazardous Decomposition Products	Nascent Oxygen, Chlorine, Calcium chlorate

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### 6. TOXICITY DATA

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#### Routs of Entry

In contact with skin

Solution can cause chemical burns

In Contact with eyes

Dust can cause eye irritation

Inhalation

Dust may irritate nose, throat & upper respiratory tract

Ingestion

May cause burns to the mouth & digestive tract

Toxicity Data

LD<sub>50</sub> (Rats, Oral) 805 mg/kg

LD<sub>50</sub> (Rabbit, Dermal) >2000 mg/kg

Chronic Toxicity

Not applicable

Carcinogenic Toxicity

Not data available

Mutagenic Toxicity

Studies for mutagenicity were negative

Reproductive Toxicity

No information is available

Ventilation Requirements

Adequate ventilation required

Respiratory Protection

Anti dust mask & respirator with acid cartridge for chlorine

Eye Protection

Goggles or full-face mask

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### 7. FIRST AID MEASURES

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Skin Contact

Remove contaminated clothing and wash affected area with sufficient quantity of water for 15-20 minutes & obtain medical advice immediately.

Eye Contact  
minutes

Immediately flush eyes thoroughly for at least 15 with running water. Hold eyelids open during flushing. If irritation persists, repeat flushing. Seek medical attention.

Inhalation

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

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Ingestion	Have victim rinse mouth thoroughly with water & drink plenty of water to dilute the material in stomach. If spontaneous vomiting occurs, make victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention immediately.
Further Medical Advice	Seek medical attention

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### 8. FIRE AND EXPLOSIVE HAZARD DATA

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Fire Extinguishing Media	Water
	Heating will emit fumes. Water spray, foam, carbon dioxide or dry powder may be used. Keep containers cool with copious amounts of water.
Would any materials saturated with this product be subject to spontaneous combustion?	Yes
Fire Fighting Protective Equipment for	Wear full protective clothing, goggles & mask suitable chlorine gas.
Unusual Fire and Explosive Hazards	During a fire in which this material is involved, emits toxic fumes of HCl.

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### 9. PERSONAL PROTECTION

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General Precautions	Eye and skin protection should be used when Handling SBP
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### 10. HANDLING AND STORAGE

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Handling closed.	Storage in a well ventilated area. Keep containers closed.  Keep away from heat, sparks and flames. Use only with adequate ventilation. Avoid generating dust & breathing vapour. Avoid contact with eyes, skin or clothing.
Storage	Store in tightly closed containers in a cool, dry & well-ventilated place. Keep away from sunlight and combustible materials. Always keep the bag on wooden pallets.

## **ON SITE EMERGENCY PLAN**

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### **11. SPILLAGE / ACCIDENT RELEASE**

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Spilling sewers.	Do not touch spilled material. Prevent it entering  Dry manual lifting of the spilled material is suggested.
Personal Precautions	Avoid generation of dust. Avoid Eyes & Skin Contact. Avoid Inhalation. Avoid Ingestion. Wear appropriate personal protective equipments.
Environmental Precautions	Prevent contamination of soil and water. Prevent from spreading or entering into sewers or confined spaces.

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### **12. WASTE DISPOSAL**

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Waste Disposal	Untreated SBP waste must never be discharged directly into sewers. Review National / Regional Regulations. Packing materials gets contaminated & can be disposed off by appropriate methods in accordance with National / Regional requirement.
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### **13. ENVIRONMENTAL INFORMATION**

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Bio – Accumulation	Not determined
Biodegradability	This material is inorganic and does not subject to biodegradation
Toxicity	Non-toxic
Mobility	No
Behaviour in Sewage	Improves sewage quality

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### **14. REGULATORY INFORMATION**

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Danger Symbol	<ul style="list-style-type: none"><li>• O Oxidizing</li><li>• C Corrosive</li><li>• N Dangerous for the environment</li></ul>
Risk Phases	Harmful :possible risk of irreversible effects if swallowed. Irritating to eyes Contact with combustible material may cause fire. Very toxic to aquatic organisms, may cause long term adverse effects Contact with acid liberates toxic gas Causes burns

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Safety Phases	Keep out of the reach of children Avoid contact with skin and eyes Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately and show the label where possible Avoid release to the environment
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### 15. TRANSPORT INFORMATION

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UN No. & Symbols	2208, "Oxidizing Substance"
Road / Rail Transport	Not known
Air Transport	Not known

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### 16. OTHER INFORMATION

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Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such used in combination with any other materials or in any process unless specified in the text.

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