GUJARAT ALKALIES AND CHEMICALS LIMITED

MATERIAL SAFETY DATA SHEET

STABLE BLEACHING POWDER

1. IDENTIFICATION

Trade Marks and Synonyms	Stable Bleaching Powder
Chemical Name and Synonyms	Calcium Hypochlorite
Physical Form	White Powder having characteristic chlorine odour
Molecular Formula	$Ca(OCl)_2$
Manufacturer Name & Address	Gujarat Alkalies and Chemicals Limited P.O. Dahej, Tal. Vagra, Dist. Bharuch (Gujarat), INDIA Telephone: +91-2641-256315/6/7

2. INFORMATION OF MAJOR INGREDIENTS

Chemical Name	Calcium Hypo Chlorite
CAS No	7782-50-5
Formula	$Ca(OCl)_2$

3. HAZARDOUS IDENTIFICATION

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.

4. PHYSICAL AND CHEMICAL PROPERTIES

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

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	**Strong Oxidizer**, so it has serious fire and explosive

5. STABILITY AND REACTIVITY

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.
Reactivity	
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

6. TOXICITY DATA

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_{50} (Rats, Oral) 805 mg/kg
	LD_{50} (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

7. FIRST AID MEASURES

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.

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

8. FIRE AND EXPLOSIVE HAZARD DATA

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.

9. PERSONAL PROTECTION

General Precautions	Eye and skin protection should be used when Handling SBP

10. HANDLING AND STORAGE

Handling	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.

11. SPILLAGE / ACCIDENT RELEASE

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.

12. WASTE DISPOSAL

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.

13. ENVIRONMENTAL INFORMATION

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

14. REGULATORY INFORMATION

Danger Symbol

- O Oxidizing
- C Corrosive
- N Dangerous for the environment

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

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

15. TRANSPORT INFORMATION

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

16. OTHER INFORMATION

Disclaimer:

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