



Material Safety Data Sheet

Bleaching powder

SECTION 1.1 – PRODUCT IDENTIFICATION

Product Name	: Bleaching powder
Molecular Formula	: $\text{Ca}(\text{OCl})_2$
Molecular Weight	: Not available.
CAS No.	: 7778-54-3

SECTION: 1.2 – COMPANY IDENTIFICATION

Company Name: Indenta Chemicals (India) Pvt. Ltd.

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SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	% by Weight
Bleaching powder	7778-54-3	100

Toxicological Data on Ingredients: Not available.

SECTION 3: HAZARD IDENTIFICATION

Main Risk Contact with combustible material may cause fire

Contact with skin Causes irritation, on contact for small duration

Contact with eyes Causes irritation

Safety Phrases Keep out of reach of children. In case of contact with skin, wash immediately with plenty of water.

SECTION 4: 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 Immediately flush eyes thoroughly for at least 15 minutes 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

SECTION 5: FIRE AND EXPLOSION 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 material saturated with this product be subject to spontaneous combustion? Yes

Fire Fighting Protective Equipment Wear full protective clothing, goggles & mask suitable for chlorine gas.

Unusual Fire and Explosive Hazards During a fire in which this material is involved, emits toxic fumes of HCl.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spillage Do not touch spilled material. Prevent it entering sewers. 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.

SECTION7: HANDLING AND STORAGE

Handling Store 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.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

General Precautions Eye and skin protection should be used when

SECTION 9: 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 (mm Hg) Not Applicable

Solubility in Water 23.4 gm/100 ml water at 40 °C

Solubility in Organic Solvents Not Known

Oxidizing /Explosive Properties Strong Oxidizer, so it has serious fire and explosion risks

SECTION 10: STABILITY AND REACTIVITY

Stability Normally unstable (losses available chlorine by 2% on heating above 100 °C)

Conditions to avoid Excessive heat and moisture.

Material to avoid Acids, organic compounds, metal oxides, ammonia, urea & amines etc.

Reactivity

Air Releases chlorine gas.

Water A risk of 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

SECTION 11: TOXICOLOGICAL INFORMATION

Routes 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

Toxicity Data May cause burns to the mouth & digestive tract

LD50 (Rats, Oral) 805 mg/kg

LD50 (Rabbit, Dermal) >2000 mg/kg

Chronic Toxicity Not Available

Carcinogenic Toxicity No 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

SECTION 12: ECOLOGICAL INFORMATION

Bio - Accumulation Not determined

Biodegradability This material is inorganic and does not subject to biodegradation.

Toxicity Non-toxic

Mobility No

Behavior in Sewage Improves sewage quality

SECTION 13: DISPOSAL CONSIDERATION

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

SECTION 14: TRANSPORT INFORMATION

UN No. & Symbols 2208, " Oxidizing Substance"

EC No: 231-908-7

Road /Rail Transport Not Known

Air Transport Not Known

SECTION 15: OTHER REGULATORY INFORMATION

Oxidizing

Corrosive

Dangerous for the environment

Risk Phrases

R40/R20/R22: Harmful: possible risk of irreversible effects if swallowed.

R36: Irritating to eyes

R8: Contact with combustible material may cause fire.

R50/53: Very toxic to aquatic organisms, may cause long term adverse effects

R31: Contact with acid liberates toxic gas

R34: Causes burns

Safety Phrases

S2: Keep out of the reach of children.

S24/25: Avoid contact with skin and eyes.

S23: Do not breathe gas/fumes/vapor/spray.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately and show the label where possible

S61: Avoid release to the environment

SECTION 16: ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

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