	SAFETY DATA SHEET (SDS)	
	BLEACHING POWDER	
	Document #: SCIL-SDS-05	Issue Date: 01-Jan-23
	Revision: 0	Next Rev: 31-Dec-27

1. IDENTIFICATION

- 1.1 Product identifier** : **Calcium hypochlorite**
Synonym(s) : Bleaching powder, Calcium Hypochlorite; Chlorinated lime
Recommended use : Laboratory chemicals, Manufacture of substances
Restrictions on use : Not determined.
Reach No. : A registration number is not available for this substance as the substance or its uses are exempted from registration.
CAS No. : 7778-54-3
- 1.2 Details of the supplier of the Safety data sheet Manufacturer**
Company Name Sitara Chemical Industries Ltd.
Address: 32-K.M, Sheikhpura Road, Faisalabad
Telephone Number: (+92) 041-4689141-5
Emergency Number (+92) 041-4689141-5 (Ext.1161)
Website <http://www.sitara.com.pk>

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or Mixture.**
Classification according to Regulation (EC) No 1272/2008
 Skin corrosion (Sub-category 1B)
 Serious eye damage (Category 1)
 Short-term (acute) aquatic hazard (Category 1)
 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label Elements

Labeling according Regulation (EC) No 1272/2008

Pictogram



Hazard statement(s)


May intensify fire; oxidizer
 Harmful if swallowed.
 Causes severe skin burns and eye damage.
 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources
 Avoid release to the environment.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 IF IN EYES: Cautiously rinse with water for several minutes.
 Wash contaminated clothing before reuse.

2.3 Other hazards:

This substance/mixture contains no components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Formula : NaOCl
Molecular weight : 74.44 g/mol

Calcium hypochlorite			
Component		Classification	Concentration
CAS-No.	7681-52-9	Ox. Sol. 2; Acute Tox. 4;	>= 10 - < 20 %
EC-No.	231-668-3	Skin Corr. 1B; Eye Dam.	
Index-No.	017-011-00-1	1; Aquatic Acute 1; H272, H302, H314, H318, H400	
		Concentration limits: >= 5 %: Skin Corr. 1B, H314; 1 - < 5 %: Skin Irrit. 2, H315; 3 - < 5 %: Eye Dam. 1, H318; 0,5 - < 3 %: Eye Irrit. 2, H319; M-Factor - Aquatic Acute: 10	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first-aid measures

General advice: First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled: After inhalation move to fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact: Rinse out with plenty of water. Remove contact lenses. Immediately call in ophthalmologist

If swallowed

Make victim drink water, avoid vomiting (risk of perforation). Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Sand Cement

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas, Calcium oxide


Not combustible.

Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

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Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Avoid inhalation of dusts, substance contact. Ensure adequate ventilation. Evacuate the danger area.
- 6.2 Environmental precautions.** Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up**
Cover drains. Dispose of properly. Clean up affected area.
- 6.4 Reference to other sections:** For disposal see section 13.

7. HANDLING AND STORAGE


- 7.1 Precautions for safe handling**
Keep away from open flames, hot surfaces and sources of ignition.
- 7.2 Conditions for safe storage, including any incompatibilities**
Separately or together with other oxidizing substances only and away from sources of ignition and heat. Because of their oxidation potential these products can raise the burning rate of combustible substances substantially or ignite combustible substances on contact with them. Do not store near acids.
- 7.3 Specific end use(s)**
Apart from the uses mentioned in section 1.1 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters** Ingredients with workplace control parameters.
- 8.2 Exposure controls**
Personal protective equipment
Eye/face protection: Use equipment for eye protection
Skin protection: Chemical resistant gloves
Body Protection: Protective clothing
Respiratory protection: Required when dust is generated.
Control of environmental exposure: Do not let product enter drains.

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties**
- Appearance**
Physical state:
- | | |
|---|------------------------------------|
| Form: | Solid, powder |
| Color: | white |
| Odor: | an odor of chlorine |
| pH: | No data available |
| Melting point/freezing point: | Melting point/range: 100 °C - lit. |
| Initial boiling point and boiling range: | No data available |
| Flash Point: | No data available |
| Evaporation rate: | No data available |
| Flammability (solid, gas): | The product is not flammable |

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Upper/lower limit on flammability or explosive limits

Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	2,35 g/cm ³ at 25 °C
Solubility in water:	No data available
Partition coefficient (n-octanol/water):	Not applicable for inorganic substances
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available.
Viscosity:	No data available
Explosive properties	No data available
Oxidizing properties	The substance is classified as oxidizing with the category 2.
9.2 Other safety information:	No data available

10. Chemical Stability & Reactivity Information

- 10.1 Reactivity:** Contact with acids liberates toxic gas.
- 10.2 Chemical Stability:** The product is chemically stable under standard ambient conditions.
- 10.3 Possibility of hazardous reactions:** Generates dangerous gases or fumes in contact with: acids.
- 10.4 Conditions to avoid:** It reacts violently with strong acids.
- 10.5 Incompatible Materials:** Incompatible with acids., Strong reducing agents
- 10.6 Hazardous Decomposition Products:**
Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Calcium oxide

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Mixture

Acute toxicity:

LD50 Oral - Rat - 850 mg/kg Remarks: RTECS

LD50 Dermal - Rabbit - > 2.000 mg/kg Remarks: IUCLID

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: Mixture causes serious eye damage. Risk of blindness! Necrosis

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available


Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

11.2 Additional Information

RTECS: NH3485000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Handle in accordance with good industrial hygiene and safety practice.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill sunfish) - 0,049 - 0,16 mg/l 96 h

Remarks: (IUCLID)

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water flea) - 0,067 mg/l - 48 h

Remarks: (ECOTOX Database)

Toxicity to algae: IC50 - algae - 2 mg/l - 72 h

Remarks: (Lit.)

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 1748 IMDG: 1748 IATA: 1748

14.2 UN proper shipping name

ADR/RID: Calcium hypochlorite, dry

IMDG: Calcium hypochlorite, dry

IATA: Calcium hypochlorite, dry

14.3 Transport hazard class (es)

ADR/RID: 5.1 IMDG: 5.1 IATA: 5.1

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: Yes IMDG Marine pollutant: Yes IATA: no

14.6 Special precautions for user: No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This material safety data sheet complies with the requirements of (EC) No. 1907/2006.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment was not carried out for this substance.

16. LABELING INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Contact with acids liberates toxic gas. May intensify fire; oxidizer. Harmful if swallowed.

Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Very toxic to aquatic life.

Disclaimer:

All information given in this data sheet by the company's technical staff is compiled based on data available at this time. The company accepts no responsibility whatsoever for its accuracy or for any results which may be obtained by customers. Any customer who relies upon any advice or information given in this data sheet by the company or by its technical staff does so entirely at its own risk and the company will not be liable for any loss or damage thereby suffered notwithstanding any want of care on the part of the company or its staff in compiling or giving the advice or information.