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Bleaching Powder CAS No 7778-54-3

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

| 1.1 | Product identifiers Product name | : | Bleaching Powder |
|------|---|----------|---|
| | CAS-No. | : | 7778-54-3 |
| 1.2 | Relevant identified uses o | of th | e substance or mixture and uses advised against |
| | Identified uses | : | Laboratory chemicals, Industrial & for professional use only. |
| 1.3 | Details of the supplier of t Company | he s | afety data sheet Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-10002 INDIA |
| | Telephone Email | - | +91 11 49404040 care@cdhfinechemical.com |
| 1.4 | Emergency telephone nur Emergency Phone # | mbe : | +91 11 49404040 (9:00am - 6:00 pm) [Office hours] |
| SECT | ION 2: Hazards identificatio | on | |
| 2.1 | Classification of the subst | anc | e or mixture |
| | Classification according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 2), H272 Acute toxicity, Oral (Category 4), H302 Skin corrosion (Category 1B), H314 Acute aquatic toxicity (Category 1), H400 | | |
| | For the full text of the H-Sta | item | ents mentioned in this Section, see Section 16. |
| | Classification according to O Oxidising C Corrosive Xn Harmful | o El | J Directives 67/548/EEC or 1999/45/EC R 8 R34 R22 R31 |

For the full text of the R-phrases mentioned in this Section, see Section 16.

R50

2.2 Label elements

Ν

Labelling according Regulation (EC) No 1272/2008

Dangerous for the

environment

Pictogram

| | | A | |
|---|-------------------------------------|---|--|
| Signal v | word | Danger Containe to metals Skills installing to the | |
| Hazard H272 H302 H314 H400 | statement(s) | May intensify fire; oxidiser. Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life. | |
| P220 P273 P280 | tionary statement(s) P351 + P338 | Keep/Store away from clothing/ combustible materials. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove | |
| P310 | | contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. | |
| Suppler EUH03 | mental Hazard informatic 1 | on (EU) Contact with acids liberates toxic gas. | |
| 2.3 Other h | azards - none | | |
| SECTION 3: Composition/information on ingredients | | | |

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Substances 3.1

| oubstances | | |
|------------------|---|----------------------|
| Molecular Weight | : | 142,98 g/mol |
| CAS-No. | : | 7778-54-3 |
| EC-No. | : | 231-908-7 |
| Index-No. | : | 017-012-00-7 |
| Formula | : | Ca(OCI) ₂ |
| | | |

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

| Component | | Classification | Concentration |
|--|--|---|---------------|
| Calcium hypochlorite CAS-No. EC-No. Index-No. | 7778-54-3 231-908-7 017-012-00-7 | Ox. Sol. 2; Acute Tox. 4; Skin Corr. 1B; Aquatic Acute 1; H272, H302, H314, H400, EUH031 | <= 100 % |
| Hazardous ingredients according to Directive 1999/45/EC Classification Concentration | | | |

| Calcium hypochlorite | | | |
|----------------------|--------------|---------------------------------------|---|
| CAS-No. | 7778-54-3 | O, C, N, R 8 - R22 - R31 - R34 <= 100 | % |
| EC-No. | 231-908-7 | - R50 | |
| Index-No. | 017-012-00-7 | | |
| | | | |

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Dry powder

- 5.2 Special hazards arising from the substance or mixture Hydrogen chloride gas, Calcium oxide
- 5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition -No smoking.Keep away from heat and sources of ignition. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| a) | Appearance | Form: powder Colour: beige |
|----|--|-------------------------------|
| b) | Odour | no data available |
| c) | Odour Threshold | no data available |
| d) | рН | no data available |
| e) | Melting point/freezing point | Melting point/range: 100 °C |
| f) | Initial boiling point and boiling range | no data available |
| g) | Flash point | not applicable |
| h) | Evapouration rate | no data available |
| i) | Flammability (solid, gas) | no data available |
| j) | Upper/lower flammability or explosive limits | no data available |
| k) | Vapour pressure | no data available |

| I) | Vapour density | no data available |
|----|----------------|-------------------|
|----|----------------|-------------------|

- m) Relative density 2,350 g/cm3
- n) Water solubility Soluble
- o) Partition coefficient: n- no data available octanol/water
- p) Auto-ignition no data available temperature
- q) Decomposition no data available temperature
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties The substance or mixture is classified as oxidizing with the category 2.
- 9.2 Other safety information no data available

SECTION 10: Stability and reactivity

- 10.1 Reactivity no data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** no data available
- **10.4 Conditions to avoid** no data available
- **10.5** Incompatible materials Incompatible with acids., Strong reducing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity LD50 Oral - rat - 850 mg/kg

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation no data available

Germ cell mutagenicity Hamster fibroblast Cytogenetic analysis

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Calcium hypochlorite)

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Additional Information RTECS: Not available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Lepomis macrochirus - 0,057 mg/l - 96,0 h

- Toxicity to daphnia and EC50 Daphnia magna (Water flea) 0,067 mg/l 48 h other aquatic invertebrates
- 12.2 Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available
- 12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects Very toxic to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

| 14.1 | UN numbe ADR/RID: 1 | - | IMDG: 1748 | IATA: 1748 |
|------|---------------------------|--|------------|------------|
| 14.2 | | Der shipping name ID: CALCIUM HYPOCHLORITE, DRY CALCIUM HYPOCHLORITE, DRY Calcium hypochlorite, dry | | |
| 14.3 | Transport h ADR/RID: 5 | azard class(es) 5.1 | IMDG: 5.1 | IATA: 5.1 |
| 14.4 | Packaging ADR/RID: I | | IMDG: II | IATA: II |

14.5 Environmental hazards ADR/RID: yes

14.6 Special precautions for user no data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

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

| Acute Tox. | Acute toxicity |
|---------------|--|
| Aquatic Acute | Acute aquatic toxicity |
| EUH031 | Contact with acids liberates toxic gas. |
| H272 | May intensify fire; oxidiser. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H400 | Very toxic to aquatic life. |
| Ox. Sol. | Oxidizing solids |
| Skin Corr. | Skin corrosion |
| | |

Full text of R-phrases referred to under sections 2 and 3

| С | Corrosive |
|-----|---|
| Ν | Dangerous for the environment |
| 0 | Oxidising |
| R 8 | Contact with combustible material may cause fire. |
| R22 | Harmful if swallowed. |
| R31 | Contact with acids liberates toxic gas. |
| R34 | Causes burns. |
| R50 | Very toxic to aquatic organisms. |

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.