

# 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 of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Bio-Chem Chemicals

5455, Nicholson Nicholson Road, Science

Market, Ambala Cantt. 133001 Haryana (India) +91-82952 41953

info@biofinechemical.com - www.biofinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance 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-Statements mentioned in this Section, see Section 16.

# Classification according to EU Directives 67/548/EEC or 1999/45/EC

 O
 Oxidising
 R 8

 C
 Corrosive
 R34

 Xn
 Harmful
 R22

 R31
 R
 N

 Dangerous for the
 R50

environment

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

#### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008









Signal word Danger

Hazard statement(s)

H272 May intensify fire; oxidiser. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Precautionary statement(s)

P220 Keep/Store away from clothing/ combustible materials.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard information (EU)

EUH031 Contact with acids liberates toxic gas.

#### 2.3 Other hazards - none

#### **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

 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)<sub>2</sub>

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

Component Classification Concentration

Calcium hypochlorite

CAS-No. 7778-54-3 Ox. Sol. 2; Acute Tox. 4; Skin <= 100 %

EC-No. 231-908-7 Corr. 1B; Aquatic Acute 1; Index-No. 017-012-00-7 H272, H302, H314, H400,

EUH031

# Hazardous ingredients according to Directive 1999/45/EC

Component 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) pH no data available

e) Melting point/freezing Melting point/range: 100 °C

point

f) Initial boiling point and no data available

boiling range

g) Flash point not applicable h) Evapouration rate no data available Flammability (solid, gas) no data available 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 no data available
 o) Partition coefficient: no data available

octanol/water

p) Auto-ignition no data available

temperature

q) Decomposition no data available

temperature

r) Viscosity no data availables) 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

LC50 - Lepomis macrochirus - 0.057 mg/l - 96,0 h Toxicity to fish Toxicity to daphnia and

other aquatic

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

# 12.2 Persistence and degradability

no data available

invertebrates

# 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 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: II IMDG: II IATA: II

#### 14.5 Environmental hazards

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

## 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

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

C Corrosive

N Dangerous for the environment

O 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. Bio-Chem Chemical and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.biofinechemical.com for additional terms and conditions of sale.