

# MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1 Product identifiers

Product name : Calcium Hydroxide

CAS-No. : 1305-62-0

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 NicholsonRoad, Science Market Ambala Cantt, 133001 - Haryana

+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

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system,

H335 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

Xi Irritant R37/38, R41

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

Pictogram

Signal word Danger

Hazard statement(s)

H315 Causes skin irritation.

H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust.

P280 Wear protective gloves/ 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.

Supplemental none

**Hazard Statements** 

#### 2.3 Other hazards - none

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

#### 3.1 Substances

Formula : H2CaO2

Molecular Weight : 74,09 g/mol

CAS-No. : 1305-62-0

EC-No. : 215-137-3

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

Component Classification Concentration

Calcium dihydroxide

CAS-No. 1305-62-0 Skin Irrit. 2; Eye Dam. 1; <= 100 %

EC-No. 215-137-3 STOT SE 3; H315, H318,

H335

Hazardous ingredients according to Directive 1999/45/EC

Component Classification Concentration

Calcium dihydroxide

CAS-No. 1305-62-0 Xi, R37/38 - R41 <= 100 %

EC-No. 215-137-3

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

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

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or

mixture 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

Use personal protective equipment. 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

Pick up and arrange disposal without creating dust. Sweep up and shovel. 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.

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.

Air and moisture sensitive.

#### 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

#### Eve/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 12,4 - 12,6 at 20 °C

e) Melting point/freezing >= 450 °C

point

f) Initial boiling point and no data available

boiling range

g) Flash point not applicableh) Evapouration rate no data available

i) Flammability (solid, gas) The product is not flammable.

j) Upper/lower no data available

flammability or explosive limits

k) Vapour pressure no data availablel) Vapour density no data available

m) Relative density 2,24 g/cm3 at 25 °C

n) Water solubility 0,99 g/l at 20 °C

o) Partition coefficient: noctanol/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 not classified as oxidizing.

no data available

# 9.2 Other safety information

Bulk density 200 - 800 kg/m3

## **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

Strong acids

# 10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Acute toxicity**

LD50 Oral - rat - 7.340 mg/kg

#### Skin corrosion/irritation

Skin - rabbit

Result: Irritating to skin.

(OECD Test Guideline 404)

# Serious eye damage/eye irritation

Eyes - rabbit

Result: Severe eye irritation

(OECD Test Guideline 405)

# Respiratory or skin sensitisation

no data available

### Germ cell mutagenicity

no data available

# Carcinogenicity

IARC: No component 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 - single exposure

Inhalation - May cause respiratory irritation.

# Specific target organ toxicity - repeated exposure

no data available

# **Aspiration hazard**

no data available

# **Additional Information**

RTECS: EW2800000

#### **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish LC50 - Clarias gariepinus - 33,884 mg/l - 96 h

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 49,1 mg/l - 48 h

invertebrates

other aquatic (OECD Test Guideline 202)

Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - 184,6 mg/l - 72 h

(OECD Test Guideline 201)

## 12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

# 12.3 Bioaccumulative potential

Does not bioaccumulate.

# 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

Harmful to aquatic life.

no data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

# Contaminated packaging

Dispose of as unused product.

## **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID: -IMDG: -IATA: -

# 14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

# 14.3 Transport hazard class(es)

ADR/RID: -IMDG: -IATA: -

#### 14.4 Packaging group

ADR/RID: -IMDG: -IATA: -

#### 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no 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.

Eye Dam. Serious eye damage H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

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

Xi Irritant

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

#### **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.