# BLEACHING POWDER EXTRA PURE MSDS

CAS-No.: 7778-54-3 MSDS



### **MATERIAL SAFETY DATA SHEET (MSDS)**

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

1.1. Product identifier

Product form : Substance

:

EC Index-No. : 017-012-00-7
EC-No. : 231-908-7
CAS-No. : 7778-54-3
Product code : 02192

Chemical structure :

Ca(OCI)<sub>2</sub>

Synonyms : CALCIUM HYPOCHLORITE

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA

PH: +91 9820509929

info@spanlab.in www.spanlab.in

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

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Solids, H272

Category 2

Acute toxicity (oral), H302

Category 4

Skin corrosion/irritation, H314

Category 1B

Hazardous to the aquatic H400

environment — Acute Hazard, Category 1

Full text of H statements: see section 16

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### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

O; R8 Xn; R22 C; R34 N; R50 R31

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS05





GHS03

GHS07

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H272 - May intensify fire; oxidiser.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

Precautionary statements (CLP) : P220 - Keep/Store away from clothing and other 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.

#### 2.3. Other hazards

No additional information available

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

### 3.1. Substances

Name : BLEACHING POWDER Extra Pure

CAS-No. : 7778-54-3 EC-No. : 231-908-7 EC Index-No. : 017-012-00-7

Full text of R- and H-statements: see section 16

### 3.2. Mixtures

Not applicable

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#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

First-aid measures after skin contact : Rinse immediately contaminated clothing and skin with plenty of water before

removing clothes. Take off immediately all contaminated clothing. Rinse skin with

water/shower. Immediately call a POISON CENTER/doctor.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after ingestion : Harmful if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May intensify fire; oxidiser.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing

risk of burns and injuries.

#### 5.3. Advice for firefighters

Firefighting instructions : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to

the risk of explosion.

#### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking.

### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Soak up spills with inert solids,

such as clay or diatomaceous earth as soon as possible.

#### 6.4. Reference to other sections

No additional information available

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Additional hazards when processed : Hazardous waste due to potential risk of explosion.

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Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Take precautionary

measures against static discharge.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing

before reuse. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply

with applicable regulations.

Storage conditions : Keep in fireproof place. Store in a well-ventilated place.

Incompatible materials : Heat sources. combustible materials.

#### 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment : Wear fire/flame resistant/retardant clothing.

Hand protection : Protective gloves

Eye protection : Chemical goggles or face shield
Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 142.99 g/mol Colour : White powder.

Odour : chlorine-like odor.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 100 °C

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 2.35 g/cm<sup>3</sup>

Solubility : Water: Soluble in water

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : May cause fire or explosion; strong oxidiser.

Explosive limits : No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Highly reactive material. Contact with acids liberates toxic gas.

### 10.4. Conditions to avoid

Heat. Sparks. Open flame.

#### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Harmful if swallowed.

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

### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Hazardous waste due to potential risk of explosion.

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

 UN-No. (ADR)
 : 1748

 UN-No. (IMDG)
 : 1748

 UN-No. (IATA)
 : 1748

 UN-No. (ADN)
 : 1748

 UN-No. (RID)
 : 1748

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### Safety Data Sheet

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : CALCIUM HYPOCHLORITE, DRY
Proper Shipping Name (IMDG) : CALCIUM HYPOCHLORITE, DRY

Proper Shipping Name (IATA) : Calcium hypochlorite, dry

Proper Shipping Name (ADN) : CALCIUM HYPOCHLORITE, DRY
Proper Shipping Name (RID) : CALCIUM HYPOCHLORITE, DRY

Transport document description (ADR) : UN 1748 CALCIUM HYPOCHLORITE, DRY, 5.1, II, (E), ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (IMDG) : UN 1748 CALCIUM HYPOCHLORITE, DRY, 5.1, II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 1748 Calcium hypochlorite, dry, 5.1, II, ENVIRONMENTALLY HAZARDOUS : UN 1748 CALCIUM HYPOCHLORITE, DRY, 5.1, II, ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (RID) : UN 1748 CALCIUM HYPOCHLORITE, DRY, 5.1, II, ENVIRONMENTALLY

**HAZARDOUS** 

### 14.3. Transport hazard class(es)

#### **ADR**

Transport hazard class(es) (ADR) : 5.1
Danger labels (ADR) : 5.1



#### **IMDG**

Transport hazard class(es) (IMDG) : 5.1 Danger labels (IMDG) : 5.1



### IATA

Transport hazard class(es) (IATA) : 5.1 Hazard labels (IATA) : 5.1



#### **ADN**

Transport hazard class(es) (ADN) : 5.1
Danger labels (ADN) : 5.1



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#### RID

Transport hazard class(es) (RID) : 5.1 Danger labels (RID) : 5.1



### **Packing group**

: 11 Packing group (ADR) : 11 Packing group (IMDG) Packing group (IATA) : 11 Packing group (ADN) : II Packing group (RID) : 11

#### **Environmental hazards**

Dangerous for the environment : Yes Marine pollutant : Yes

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

: 02 Classification code (ADR) Special provisions (ADR) : 314 Limited quantities (ADR) : 1kg Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC08 Special packing provisions (ADR) : B4, B13 Mixed packing provisions (ADR) : MP10 : SGAN Tank code (ADR) : TU3 Tank special provisions (ADR) Vehicle for tank carriage : AT Transport category (ADR) : 2 Special provisions for carriage - Packages : V11

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

Hazard identification number (Kemler No.)

Orange plates

50 1748

: CV24, CV35

Tunnel restriction code (ADR) : E EAC code : 1W

### - Transport by sea

Special provisions (IMDG) : 314 Packing instructions (IMDG) : P002 : PP85 Special packing provisions (IMDG) EmS-No. (Fire) : F-H EmS-No. (Spillage) : S-Q Stowage category (IMDG) : D

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Stowage and handling (IMDG) : SW1, SW11

Segregation (IMDG) : SG35, SG38, SG49, SG53, SG60

Properties and observations (IMDG) : White or yellowish solid (powder, granules or tablets) with chlorine-like odour.

Soluble in water. May cause fire in contact with organic material or ammonium compounds. Substances are liable to exothermic decomposition at elevated temperatures. This condition may lead to fire or explosion. Decomposition can be initiated by heat or by impurities (e.g. powdered metals (iron, manganese, cobalt, magnesium) and their compounds). Liable to heat slowly. Reacts with acids, evolving chlorine, an irritating, corrosive and toxic gas. In the presence of moisture,

corrosive to most metals. Dust irritates mucous membranes.

MFAG-No : 140

#### - Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y544
PCA limited quantity max net quantity : 2.5kg

(IATA)

PCA packing instructions (IATA) : 558
PCA max net quantity (IATA) : 5kg
CAO packing instructions (IATA) : 562
CAO max net quantity (IATA) : 25kg
Special provisions (IATA) : A136, A803

ERG code (IATA) : 5L

#### - Inland waterway transport

Classification code (ADN) : O2
Special provisions (ADN) : 314
Limited quantities (ADN) : 1 kg
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

#### - Rail transport

Classification code (RID) : O2
Special provisions (RID) : 314
Excepted quantities (RID) : E2

Packing instructions (RID) : P002, IBC08
Special packing provisions (RID) : B4, B13
Mixed packing provisions (RID) : MP10
Tank codes for RID tanks (RID) : SGAN
Special provisions for RID tanks (RID) : TU3
Transport category (RID) : 2
Special provisions for carriage – Packages : W11

(RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW24, CW35

Colis express (express parcels) (RID) : CE10 Hazard identification number (RID) : 50

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

### No REACH Annex XVII restrictions

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BLEACHING POWDER Extra Pure is not on the REACH Candidate List BLEACHING POWDER Extra Pure is not on the REACH Annex XIV List

#### 15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 2, significant hazard to water (Classification according to

AwSV; ID No. 2062)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

Vruchtbaarheid

: The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

: The substance is not listed

#### **Denmark**

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

#### Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R34	Causes burns

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R50	Very toxic to aquatic organisms
R8	Contact with combustible material may cause fire
С	Corrosive
N	Dangerous for the environment
0	Oxidising
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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