

Material Safety Data Sheet



BLEACHING POWDER
(Calcium hypochlorite)

VERSION : 02
DATE OF ISSUE : 26-08-2019
SUPERSEDES : 01

Product Code :12900

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : BLEACHING POWDER (Calcium hypochlorite)

Product code : 12900

Identification of the product : BLEACHING POWDER (Calcium hypochlorite)

CAS No : 7778- 54- 3

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

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,
Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

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

environment — Acute

Hazard, H400

Category 1

Full text of H statements : see section 16

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display
Extra classification(s) to display

Symbol(s) : N : Dangerous for the environment

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O : Oxidizing

C: Corrosive



R Phrase(s) : R8: Contact with combustible material may cause fire.

R22: Harmful if swallowed.

R31: Contact with acids liberates toxic gas.

R34: Cause burns.

R50: Very toxic to aquatic organisms.

S Phrase(s) : S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61: avoid release to the environment . refer to special instruction/safety data sheets.

S36/37/39 : Wear suitable protective clothing and gloves & eye/face protecting.

Hazard pictograms :



Signal word : Danger

Hazard statements : 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

3. Composition/information on ingredients

3.1. Substances : BLEACHING POWDER

CAS-No. : 7778-54-3

Substance.

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Contains no other components or impurities which will influence the classification of the product.

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.

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.

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

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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

7. Handling and storage

7.1. Precautions for safe handling

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

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

8. Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Wear fire/flammable 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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Odour threshold : No data available

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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

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/cm³

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

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.

11. Toxicological information

11.1. Information on toxicological effects

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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
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Potential adverse human health effects and symptoms : Harmful if swallowed.

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

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.

14. Transport information

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

14.1. UN number

UN-No. (ADR) : 1748

UN-No. (IMDG) : 1748

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UN-No. (IATA) : 1748

UN-No. (ADN) : 1748

UN-No. (RID) : 1748

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

Transport document description (ADN) : 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

RID- Transport hazard class(es) (RID) : 5.1

Danger labels (RID) : 5.1

14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

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Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport- Classification code (ADR) : O2

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

Tank code (ADR) : SGAN

Tank special provisions (ADR) : TU3

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Special provisions for carriage – Packages (ADR) : V11

Special provisions for carriage - Loading,
unloading and handling (ADR) : CV24, CV35

Hazard identification number (Kemler No.) : 50

Orange plates : Tunnel restriction code (ADR) : E

EAC code : 1W

Transport by sea- Special provisions (IMDG) : 314

Packing instructions (IMDG) : P002

Special packing provisions (IMDG) : PP85

EmS-No. (Fire) : F-H

EmS-No. (Spillage) : S-Q

Stowage category (IMDG) : D

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,

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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
(IATA) : 2.5kg

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 (RID) : W11

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

15. Regulatory information

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

15.1.1. EU-Regulations

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No REACH Annex XVII restrictions

BLEACHING POWDER is not on the REACH Candidate List

BLEACHING POWDER 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.BImSchV : Is not subject of the 12. BImSchV (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

voortplanting giftige stoffen – Borstvoeding : The substance is not listed

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

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

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End of document

Prepared by: MOLYCHEM (INDIA)

For questions contact: MOLYCHEM

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