MATERIAL SAFETY DATA SHEET CALCIUM HYPOCHLORITE



1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Calcium Hypochlorite

Synonyms: Calcium Oxychloride, Bleaching powder,

Chlorinated Lime and Granulated Chlorine

INCI Name: Calcium Hypochlorite

CAS Number: 7778-54-3

Chemical Formula: CaCl₂O₂ **Product Form:** Solid

Product Use: Sterilization, disinfection. Supplier: ASES CHEMICAL WORKS.

Address: Brahm Bagh, Jalori Gate

Jodhpur - 342001 Rajasthan-India

Phone: +91-9636889954

Web: www.ases.in Email: ecom@ases.in

2 HAZARDS IDENTIFICATION

Most important hazard: Mild Irritant

Safety Phrases: Keep out of reach of children. In case of contact with skin wash immediately with plenty of water.

3 COMPOSITION/INFORMATION ON INGREDIENTS

CAS No EC Number Molecular Weight Concentration Component

7778-54-3 231-908-7 70% Calcium Hypochlorite 142.98

Hazardous components Calcium hypochlorite

Ox. Sol. 2; Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H272, H302, H314, H410

4 FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Skin contact Take off contaminated clothing and shoes immediately. Wash off with plenty of water. Consult a physician. Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes

during transport to hospital.

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

Consult a physician.

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry powder Special hazards arising from the substance or mixture No data available

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

Further information No data available

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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.

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum Clean up procedure:

cleaner or by wet brushing and place in container for disposal according to local regulations.

Do not flush with water. Keep in suitable, closed containers for disposal.

7 HANDLING & STORAGE

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials

may result in the formation of combustible dusts. The potential for combustible dust formation should be

taken into consideration before additional processing occurs.

Storage: 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. Keep in a dry place.

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

Eye/face protection Wear face shield or eye protection in combination with breathing protection.

Skin protection Protective gloves. Protective clothing. **Respiratory protection** Use local exhaust or breathing protection.

Thermal hazards no data available

9 PHYSICAL AND CHEMICAL PROPERTIES

Vapour Pressure Not applicable **Appearance** White, free flowing granular solid Odor Strong chlorine odor **Vapour Density** Not applicable pH(1%) **Boiling Point** Not applicable 11.5 (5% solution) **Melting Point** Decomposes @ temp above 150°C. **Evaporation Rate** Not applicable Coefficient of Water/Oil Distribution: **Specific Gravity** 2.050-2.20@20 °C (Water=1@4°C) Not applicable

10 STABILITY AND REACTIVITY

Reactivity: No data available.

Stability: Stable under recommended storage conditions.

Hazardous reactions : No data available

Conditions to avoid: No data available.

Incompatible materials: Incompatible with acids., Strong reducing agents.

Hazardous decomposition products: Hydrogen chloride gas, Calcium oxide

11 TOXICOLOGICAL INFORMATION

Acute toxicity LD50 Oral - Rat - 850 mg/kg Inhalation: No data available Dermal: No data available

Skin corrosion/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory or skin sensitisationNo data available

Germ cell mutagenicity Hamster Fibroblast Cytogenetic analysis

Carcinogenicity

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

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicityNo data available

Specific target organ toxicitySingle exposureNo data availableSpecific target organ toxicityRepeated exposureNo data available

Aspiration hazard No data available
Additional Information RTECS: NH3485000

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12 ECOLOGICAL INFORMATION

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

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data available

Mobility in soil No data avai

PBT and vPvB assessment PBT/vPvB ass

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PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal. Very toxic to aquatic life.

13 DISPOSAL CONSIDERATIONS

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. Contact a licensed professional waste disposal service to dispose of

this material.

Contaminated packaging Dispose of as unused product

14 TRANSPORT INFORMATION

DOT (US) UN number: 1748 Class: 5.1 Packing group: II

Proper shipping name: Calcium hypochlorite, dry

Reportable Quantity (RQ): 10 lbs

Marine pollutant: Yes Poison Inhalation Hazard: No

IMDG UN number: 1748 Class: 5.1 Packing group: II EMS-No: F-H, S-Q

Proper shipping name: Calcium Hypochlorite, Dry

Marine pollutant: Yes Marine pollutant: Yes

IATA UN number: 1748 Class: 5.1 Packing group: II

Proper shipping name: Calcium hypochlorite, dry

15 REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. **SARA 313 Components** This material does not contain any chemical components with known CAS numbers that exceed the

threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know ComponentsCalcium hypochloriteCAS-No. 7778-54-3Pennsylvania Right To Know ComponentsCalcium hypochloriteCAS-No. 7778-54-3New Jersey Right To Know ComponentsCalcium hypochloriteCAS-No. 7778-54-3

California Prop. 65 Components

This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

16 OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ASES CHEMICAL WORKS assume no liability resulting from its use.