

MATERIAL SAFETY DATA SHEET

Revision #: 01

Section 1 - Product Identification & Use

Product Name: Calcium Hypochlorite
Synonyms: Pittchlor, calcium oxychloride, bleaching powder, chlorinated lime, granulated chlorine.
WHMIS Classification: Class C: Oxidizing Material
Class E: Corrosive Material
TDG Classification: Calcium hypochlorite, hydrated
Class 5.1, UN2880, II
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Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD ₅₀ & LC ₅₀
Calcium Hypochlorite	65-75	7778-54-3	(oral rat): 850 mg/kg

Section 3 - Physical Data

Physical state: solid
Specific Gravity: 2.35
Freezing point: not applicable
Solubility in water: 21%
Vapour pressure: not applicable
Boiling point: decomposes at 100°C
pH: 11.5 (5% solution)
Volatiles (% weight): 0
Evaporation rate: no data
Odour & Appearance: White granules with a chlorine odour.

Section 4 - Fire or Explosion Hazard

Flammability: The product is not considered to be flammable but will support combustion.
Extinguishing media: Flood with water. Wear full chemical protective clothing. Use an extinguishing media for surrounding the fire, or all-purpose foam by manufacturer's recommended techniques for large fires. Use water to cool fire exposed containers to prevent vapour build-up and rupture.
Hazardous Combustion/Decomposition Products: Toxic and corrosive fumes of chlorine gas are emitted during decomposition or upon exposure to acids.

Section 5 - Reactivity Data

Stability: Normally stable. High heat may cause rapid decomposition.
Incompatible substances: Organic or any oxidizable materials, acids and ammonia.
Polymerization: Will not occur.
Hazardous decomposition products: Toxic fumes of chlorine gas.

Section 6 - Toxicological Properties

Inhalation: Dusts are corrosive to the entire respiratory tract. Breathing dust can damage the mucous membranes. Fumes liberated during decomposition or upon contact with acids or water are corrosive to the respiratory tract and can cause confusion, pulmonary edema and confusion.
Skin contact: May irritate skin, possibly causing mild lesions if not treated.
Eye contact: Severe irritation to the eye.
Ingestion: Severe irritation to the gastrointestinal tract. Possible lesions to the esophagus if not treated promptly.
Carcinogenicity: Not listed as a carcinogen by IARC, NTP, or OSHA.

Section 7 - Preventative Measures

Personal Protective Equipment: Avoid contact with skin and eyes. Wear chemical protective gloves, goggles and face shield, rubber apron and boots. Eye wash fountains and safety shower facilities should be provided nearby for emergency use.
Respiratory protection: None necessary under normal use conditions. In poorly ventilated area or if dust is evident, use an NIOSH/MSHA approved air purifying, dust, mist and particulate respirator.
Action to take for spills & leaks: Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small

spills should be swept or vacuumed up and disposed of in government approved waste containers. The spill area may then be flushed with large quantities of water. Larger spills should be contained by diking with sand, soil or other non-combustible material, then transferred into approved waste containers for proper disposal. Do not allow spilled, or waste product to flow into waterways. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste.

Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures. **Note:** Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

Storage & Handling Precautions: Warning, harmful or fatal if swallowed. Causes eye, skin and respiratory irritation. Avoid contact with eyes and repeated contact with skin and clothing. Do not ingest. Keep container tightly closed when not in use. Store upright in a cool, dry, well-ventilated place away from incompatible materials including organic materials and acids. Do not use pressure to empty container. Wash thoroughly after handling. Use with adequate ventilation.

Repair and Maintenance Precautions: Do not cut, grind, weld or drill in, on or near this container.

Section 8 - First Aid Measures

If inhaled: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. Keep patient warm and at rest.

In case of eye contact: Immediately flush eyes with clean water for at least twenty (20) minutes, lifting the upper and lower eyelids to ensure complete flushing action of the eyeball. Get immediate emergency medical attention. Do not transport victim until the recommended flushing period has been completed, unless eye flushing can be carried out during transport.

In case of skin contact: Wash affected area with soap and water. Remove contaminated clothing and shoes. If irritation persists, get emergency medical attention. Wash and launder clothes before re-use.

In case of ingestion or swallowing: If victim is conscious, dilute stomach contents by giving one or two glasses of water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all-inclusive, and the manner and conditions of use may involve other and additional considerations.

Revised: 5 July, 2004; 6 November 2006; 15 December 2006