



Chlor Pars Company Producer Chlorine, Alkalis & Hydrogen peroxide

Material Safety Data Sheet- Calcium Hypochlorite 65%

Code: QAD-MSDS-08-EN

Rev:04

Issue Date: 04/08/2019

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1. IDENTIFICATION

Product name: Calcium hypochlorite

Cat No. : C100-250; C100-500

CAS-No 7778-54-3

Synonyms losantin; Hypochlorous acid; Calcium oxychloride

Recommended use of the chemical and restrictions on use

Identified uses: Laboratory chemicals.

Food, drug, pesticide or biocidal product use

COMPANY IDENTIFICATION

Name Company: Chlor pars co

Address: 20Km of Tabriz-Tehran road, Tabriz – Iran

Telephone number: +98(041) 36300609

Fax number: +98(041)3364431, 36300611

Web: www.chlorpars.com

2. HAZARDS IDENTIFICATION

Hazard classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids
Corrosive to metals
Acute oral toxicity
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation
Specific target organ toxicity (single exposure)
Target Organs - Respiratory system.

Category 2
Category 1
Category 4
Category 1 B
Category 1
Category 3

Label Elements

Signal Word

Danger

Hazard Statements

May intensify fire; oxidizer
May be corrosive to metals
Harmful if swallowed



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Precautionary statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep/Store away from clothing/ other combustible materials
Take any precaution to avoid mixing with combustibles
Keep only in original container

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Ingestion

Rinse mouth
Do NOT induce vomiting

Fire

In case of fire: Use water spray or fog for extinction

Spills

Absorb spillage to prevent material damage

Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed
Store in corrosive resistant polypropylene container with a resistant liner
Store in a dry place

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life Contact with acids liberates toxic gas



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Calcium hypochlorite
CAS-No 7778-54-3
Weight % 100

4. FIRST AID MEASURES

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.

Do not induce vomiting. Call a physician or Poison Control Center immediately.

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Treat symptomatically

5. FIREFIGHTING MEASURES

Not combustible. Use: Water spray or fog. Use water spray to cool unopened containers.

Carbon dioxide (CO₂), Dry chemical

Not applicable
No information available

No information available

Explosion Limits

No data available
No data available
Oxidizer

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Oxidizer: Contact with combustible/organic material may cause fire. Decomposes violently at elevated temperatures. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Corrosive Material. Do not allow run-off from fire fighting to enter drains or water courses. May ignite combustibles (wood paper, oil, clothing, etc.).



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Hazardous Combustion Products

Hydrogen chloride gas Chlorine oxygen

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health

3

Flammability

0

Instability

1

Physical hazards

OX

6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Keep combustibles (wood, paper, oil, etc) away from spilled material. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Use only under a chemical fume hood. Wear personal protective equipment. Keep away from clothing and other combustible materials. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Keep away from direct sunlight. Keep away from heat and sources of ignition. Keep at temperatures below 50°C. Keep refrigerated. Corrosives area. Do not store near combustible materials.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Solid
Off-white
slight chlorine
No information available
11.4
100 °C / 212 °F
No information available
Not applicable
Not applicable
No information available

Flammability or explosive limits

No data available
No data available
No information available
Not applicable
2.350
soluble Decomposes in contact with water
No data available
No information available
No information available
Not applicable
Ca Cl₂ O₂
142.98



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10. STABILITY AND REACTIVITY

Yes

Oxidizer: Contact with combustible/organic material may cause fire.

Combustible material. Incompatible products. Exposure to moist air or water. Temperatures above 50°C. Excess heat.

Organic materials, Acids, Amines, Ammonia, Alcohols, Reducing agents, Metals, Strong reducing agents, Combustible material

Hazardous Decomposition ProductsHydrogen chloride gas, Chlorine, oxygen

Hazardous polymerization does not occur.

Contact with acids liberates toxic gas. Thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Component Information

Component
Calcium hypochlorite

LD50 Oral
LD50 = 850 mg/kg (Rat)

LD50 Dermal
LD50 > 2000 mg/kg (Rabbit)

LC50 Inhalation
Not listed

Toxicologically Synergistic Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Causes burns by all exposure routes

No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Calcium hypochlorite	7778-54-3	Not listed	Not listed	Not listed	Not listed	Not listed

No information available

No information available.

No information available.

No information available.

Respiratory system
None known

No information available



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Symptoms / effects, both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

No information available

The toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Calcium hypochlorite	Not listed	LC50: 0.054 - 0.06 mg/L, 96h semi-static (Lepomis macrochirus) LC50: = 0.4 mg/L, 96h flow-through (Lepomis macrochirus) LC50: 0.13 - 0.2 mg/L, 96h static (Oncorhynchus mykiss) LC50: 0.055 - 0.1 mg/L, 96h semi-static (Oncorhynchus mykiss) LC50: = 0.5 mg/L, 24h static (Morone saxatilis) LC50: 0.185 - 0.26 mg/L, 96h semi-static (Cyprinus carpio) LC50: 0.561 - 1.41 mg/L, 96h static (Pimephales promelas) LC50: 0.049 - 0.16 mg/L, 96h static (Lepomis macrochirus)	Not listed	0.11 mg/l EC50 48h

Soluble in water Persistence is unlikely based on information available.

No information available.

Will likely be mobile in the environment due to its water solubility.



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13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT

UN3485
Calcium hypochlorite, dry, corrosive
5.1
8
II

TDG

UN3485
Calcium hypochlorite, dry, corrosive
5.1
8
II

IATA

UN3485
CALCIUM HYPOCHLORITE, DRY, CORROSIVE
5.1
8
II

IMDG/IMO

CALCIUM HYPOCHLORITE, DRY, CORROSIVE
5.1
8
II

U
N
3
4
8
5



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15. REGULATORY INFORMATION

International Inventories

NDSL EINECS ELINCS
231-908-7

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

Not applicable

Not applicable

See section 2 for more information

CWA (Clean Water Act)

CWA - Hazardous
Component
Substances
X Calcium
hypochlorite

CWA - Reportable
Quantities
10 lb

CWA - Toxic Pollutants CWA - Priority Pollutants

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Not applicable
Clean
Air Act

OSHA Occupational Safety and Health Administration

Not applicable

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Hazardous Substances RQs Component
10 lb Calcium hypochlorite

This product does not contain any Proposition 65
chemicals
California Proposition 65



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CERCLA EHS RQs

-

U.S. State Right-to-Know Regulations

Massachusetts Component

X Calcium hypochlorite

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

16. OTHER INFORMATION

Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

28-May-2010

20-Apr-2018

20-Apr-2018

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text