



SAFETY DATA SHEET

EC 93/112

Revision Date: 07.02.2001 (EU)
NA Issue DATE: 18.07.2001, NA Edition No. 8

REF. 0310/04/eng
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name Calcium Hypochlorite Granular

Supplier PPG Industries Inc.
One PPG Place
Pittsburgh PA 15272
USA

Telephone ++1 412 434 2278
Telefax ++1 412 434 3193
Emergency telephone number ++1 304 843 1300 (USA)
Emergency telephone number ++32 1 458 4545 (Europe)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name of the substance Calcium Hypochlorite (>65% Cl active)

Synonyms Pittclor®, Premiere Pittclor® QD, Induclor®, Repak™, Zappit™

Index-No. 17-012-00-7 **EC No.** 231-908-7 **CAS-No.** 7778-54-3

Hazardous impurities None.

3. HAZARDS IDENTIFICATION

Most important hazards: Contact with combustible material may cause fire.
Dangerous for the environment.

Specific hazards Ingestion causes burns of the upper digestive and respiratory tracts. (fatality)

4. FIRST AID MEASURES

General advice

Show this safety data sheet to the doctor in attendance. Remove from exposure, lie down.

Inhalation

Move to fresh air. Call a physician immediately. Oxygen or artificial respiration if needed.

Skin contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
If skin irritation persists, call a physician

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Keep eye wide open while rinsing.

Ingestion

Remove from exposure, lie down. Call a physician immediately. Do not induce vomiting.
If victim is conscious: Immediately give plenty of water.

Protection of first-aiders

Avoid contact with skin, eyes and clothing.

Notes to physician

Inhalation of vapours in high concentration may cause shortness of breath (lung oedema).
Symptoms may be delayed.



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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water only.

Extinguishing media which must not be used for safety reasons

Dry powder, foam, sand halons.

Hazardous decomposition products

Oxygen, chlorine.

Special protective equipment for firefighters

In case of fire, wear a self contained breathing apparatus.

Specific methods

Cool containers / tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Risk of violent reaction, risk of ignition. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment. Evacuate personnel to safe areas.

Environmental precautions

Keep away from living quarters.

Methods for cleaning up

Dispose of promptly. Sweep up and shovel into suitable containers for disposal. Dilute with plenty of water. Neutralise with acid. Flush into sewer with plenty of water. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions

Handle and open container with care.
Use only in area provided with appropriate exhaust ventilation.

Safe handling advice

Wear personal protective equipment.
Open drum carefully as content may be under pressure.

Storage

Keep away from combustible material.

Technical measures/Storage conditions

Keep tightly closed in a dry, cool and well-ventilated place
Keep away from heat, Keep away from open flames, hot surfaces and sources of ignition.

Incompatible products

Do not store near acids, ammonia.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure

Ensure adequate ventilation, especially in confined areas.

Control parameters

PPG IPEL 1 mg/m³ 8h TWA, 2 mg/m³ STEL
OSHA PEL none. ACGIH PEL none.

Personal protection equipment

Respiratory protection

Respirator must be worn if exposed to dust.

Hand protection

Impervious butyl rubber gloves.

Eye protection

Tightly fitting safety goggles .

Skin and body protection

None.

Hygiene measures

When using, do not eat, drink or smoke.
Wash hands before breaks and immediately after handling the product
Regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	granular	Colour	white	Odour	slight chlorine
pH			alkaline		
Boiling point/range			not applicable		
Melting point/range			not applicable		
Decomposition temperature			180° C		
Flash point			none.		
Autoignition temperature			no data available		
Explosion limits			- lower no data available - upper no data available		
Density			no data available		
Solubility			Water solubility 217 g/l @ 27°C		



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10. STABILITY AND REACTIVITY

Stability

Decomposes on heating (180°C).

Conditions to avoid

Contact with combustible material may cause fire.

Materials to avoid

Acids, ammonia, reducing agents, organic materials

Hazardous decomposition products

Oxygen, chlorine.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LC50/inhalation/1h/rat > 3.5 mg/l

LD50/dermal/rabbit > 1000 mg/kg

Local effects

Causes severe caustic burns to skin and eyes.

Inhaled corrosive substances can lead to a toxic oedema of the lungs. (Symptoms may be delayed.)

Very toxic if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

Long term toxicity

Avoid repeated exposure.

Specific effects

Not carcinogenic (IARC, OSHA, NTP).

Not mutagenic.

12. ECOLOGICAL INFORMATION

Mobility

Soluble.

Bioaccumulation

No information available.

Ecotoxicity

Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

It must undergo special treatment (neutralise), e.g. at suitable disposal site, to comply with local regulations.

Contaminated packaging

Clean container with water.

Empty containers should be taken for local recycling, recovery or waste disposal.



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14. TRANSPORT INFORMATION

UN-No 2880

ADR/RID

Class 5.1 Item 15°(b) ADR/RID-Labels Oxidising agent (5.1)
HI/UN No: 50/2880
Proper shipping name Calcium Hypochlorite Hydrated, 5.1, 15°(b), ADR/RID

IMO

Class 5.1 IMDG Page 5138
Packaging group. II IMO-Labels Oxidizing agent
EmS. 5.1-0.6 MFAG. 741
Proper shipping name Calcium Hypochlorite Hydrated, UN 2880

ICAO

Class 5.1 ICAO-Labels Oxidiser
Packaging group. II
Proper shipping name Calcium Hypochlorite Hydrated Mixture, UN 2880

US DOT

Class 5.1 DOT Labels Oxidizer
Packing Group II ID No. 2880
Proper shipping name Calcium Hypochlorite Hydrated

15. REGULATORY INFORMATION

According to (National equivalent of EC-Dir. 67/548), as amended, the product is labelled as follows:

Symbols: O - Oxidizing, C - Corrosive, N - Dangerous for the environment.

R -phrases R 8 - Contact with combustible material may cause fire.
R22 - Harmful if swallowed.
R31 - Contact with acids liberates toxic gas.
R34 - Causes burns
R50 - Very toxic to aquatic organisms.

S -phrases S2 - Keep out of reach of children.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
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 instructions/Safety data sheets.

16. OTHER INFORMATION

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.
