Material Safety Data Sheet According to 1907/2006/EC - Article 31

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

1.1 Product Identifier

Trade Name: Calcium Hypochlorite Granules

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: Disinfection of Swimming Pool Water

Restrictions: At this time we do not have information on use restrictions

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd

Unit 2, The Park Stoke Orchard Bishops Cleeve Gloucestershire GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083

E-mail: <u>sales@cpc-chemicals.co.uk</u>

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class Hazard Category Target Organs Hazard Statements
Ox. Sol. 2 Hazard Statements

 Acute Tox. 4 *
 H302

 Skin Corr. 1B
 H314

 Aquatic Acute 1
 H400

For the full text of the H statements mentioned in this section see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger Risk phrases

Corrosive: C R34

Dangerous for the environment R50

For the full text of the R phrases mentioned in this section see Section 16.

Most important adverse effects

Human Health: See section 11 for toxilogical information
Physical & Chemical Hazards: See section 9 for physicochemical information
Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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Signal word: Danger

Hazard statements:

Hazard symbols:

H272 May intensify fire; oxidiser

H314: Causes severe skin burns and eye damage

H400: Very toxic to aquatic life

H302+EUH031: Harmful if swallowed. Contact with acids liberates toxic gas. H335+H336: May cause respiratory irritation. May cause drowsiness or dizziness

Warning! Do not use together with other products. May release dangerous gases (chlorine)

2. Hazard Identification

Precautionary statements:

Prevention P261 Avoid breathing gas/mist/vapours/spray

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

Response

P301+330 + P310 IF SWALLOWED: rinse mouth. Immediately call a poison centre

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing

Additional Labelling:

EUH031 Contact with acids liberates toxic gases

Hazardous components which must be listed on the label

Calcium Hypochlorite

2.3 Other Hazards No other information is available

3. Composition/information on ingredients

3.1 Substances Calcium Hypochlorite

Chemical nature: Solid

Chemical NameCAS NoENICS NoIndexCalcium Hypochlorite7778-54-3231-908-7017-012-00-7

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take of all contaminated clothing immediately

In case of accident by inhalation; remove casualty to fresh air and keep at rest. If breathing

is irregular or stopped, administer artificial respiration. Call a physician immediately.

In case of skin contact: Wash off immediately with plenty of soap & water. If irritation appears seek medical advice

In case of eye contact:

Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove

contact lenses. Call a doctor immediately

If swallowed: Clean mouth with water and drink plenty of water. Never give anything by mouth to an

unconscious person. Call for a doctor immediately

Further Information: Symptoms of poisoning may even occur after several hours; therefore medical observation

for at least 48 hours after the accident.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: See section 11 for more detailed information on health effects and Symptoms See section 11 for more detailed information on health effects and Symptoms

4.3 Indication of immediate medical attention and special treatment needed

Treatment No information available

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Water Spray

Unsuitable extinguishing media: Fire extinguishing powder

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire fighting: Fire may cause evolution of

Hydrogen chloride (HCI) Carbon monoxide (CO)

5.3 Advice for fire-fighters

Special protective equipment: Fire-fighters should wear full protective clothing and self-contained breathing

apparatus (SCBA).

Collect contaminated fire extinguishing water separately. This must not be

Further Information: discharged into drains.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Wear respiratory protection. Keep people

away from and upwind of spill/leak.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods and materials for Use neutralizing agent. containment and cleaning up: Ensure adequate ventilation.

Further Information: Treat recovered material as described in the section 'Disposal considerations'

6.4 Reference to other sections

See Section 1 for emergency contact information

See Section 7 for information on Personal protective equipment

See section 13 for waste treatment information

7. Handling and storage

7.1 Precautions for safe handling

DO NOT MIX WITH OTHER PRODUCTS

DO NOT DISSOLVE BEFORE USE

Advice on safe handling:

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before

Hygiene measures: breaks and at the end of the work dat. Take off all contaminated clothing

immediately. Provide adequate ventilation. Avoid contact with the skin and

eyes.

(continued on Page 4)

7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and Do not store product where the average daily temperature exceeds 35°C.

Advice on protection against fire and Product is oxidising when dry

Further information: Keep container tightly sealed.

Advice on common storage: Store away from flammable substances, reducing agent and acids.

Storage Temperature: No further information available

7.3 Specific end uses

Specific use(s) No information available

8. Exposure control/personal protection

8.1 Control parametersNo value assigned for this product

8.2 Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Respiratory protection Advice: Use respirator with appropriate filter if vapours or aerosol are released

Recommended Filter type: FP2

Hand protection Advice: Gloves

Material Chloroprene rubber, CR

Eye protection Advice: Tightly fitting safety goggles

Skin and body protection

Advice: Protective work clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems

Avoid subsoil penetration

If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Granular solid Colour: Whitish

Odour: Characteristic chlorine

Odour Threshold: Currently we do not have any information from our supplier about this.

pH @ 20°C: 10.5 / 11.5

Melting point: Undetermined
Boiling point: Undetermined
Flash point: not applicable

Evaporation rate: Currently we do not have any information from our supplier about this.

Flammability (solid, gas) does not ignite
Upper explosion limit: not applicable
Lower explosion limit: not applicable

Vapour pressure: Currently we do not have any information from our supplier about this. Relative vapour density: Currently we do not have any information from our supplier about this.

Density @ 20°C: 1.3 g/cm³

(continued on Page 5)

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Water solubility: Completely soluble

Partition coeffcient:n-octanol/water: Currently we do not have any information from our supplier about this.

Ignition temperature: not applicable Thermal decomposition: 170 - 180°C

Viscosity, kinematic: Currently we do not have any information from our supplier about this.

Explosive properties: Product does not present an explosion hazard

Oxidising properties: Product is oxidising when dry

9.2 Other InformationNo further information available

10. Stability and reactivity

10.1 Reactivity

Advice: Contact with acids liberates toxic gas

10.2 Chemical stability

Advice: Decomposes on heating and exposure to light

10.3 Possibility of hazardous reactions

Hazardous reactions: May develop chlorine if mixed with acidic solutions

10.4 Conditions to avoid

Conditions to avoid Heat

10.5 Incompatible materials

NEVER MIX THIS PRODUCT WITH ORGANIC CHLORINE (TRICHLOR OR DICHLOR) WITHIN THE SAME CONTAINER.

Materials to avoid Strong oxidising agents

Alcohols, amines, aqueous acids and alkalis

Flammable substances

10.6 Hazardous decomposition products

Hazardous decomposition products: Hydrogen chloride gas, other compounds of chlorine. Calcium compounds.

11. Toxilogical Information

11.1 Information on toxilogical effects

LD/LC50 values relevant for classification:

Acute Toxicity

7778-54-3 Calcium hypochlorite

Value type LD50 Oral Value 850mg/kg Species Rat

Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes

on the eye: Strong caustic effect

Sensitization: No sensitizing effects known.

Chronic toxicity Currently we do not have any information from our supplier about this.

Carcinogenicity Currently we do not have any information from our supplier about this.

Mutagenicity Currently we do not have any information from our supplier about this.

Other relevant toxicity:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of

perforation of the oesophagus and stomach.

Trade Name:

Calcium Hypochlorite Granules

12. Ecological Information

12.1 Toxicity

Aquatic Toxicity: calcium hypochlorite 7778-54-3 LC/LD50 3,474 mg/kg Bobwhite quail dietary 5,000ppm Bobwhite quail LC50 48 hrs 01.11 mg/l Daphnia Magna LC50 96 hrs 0.088 mg/l Bluegill sunfish (96hr) LC50 Rainbow Trout 96 hrs 0.16 mg/l LC/LD50 Mallard duck dietary >5,000

12.2 Persistence and degradability

Currently we do not have any information from our supplier about this. Persistence Currently we do not have any information from our supplier about this. Degradability

12.3 Bioaccumlative potential Currently we do not have any information from our supplier about this.

12.4 Mobility in soil Currently we do not have any information from our supplier about this.

12.5 Results of PBT and PvB Currently we do not have any information from our supplier about this.

12.6 Other adverse effects Water hazard Class 2 (German Regulation) (self assessment): hazardous for water

> Do not allow product to reach ground water, water course or sewage system Must not reach sewage water or drainage ditch undiluted or underutilized Danger to drinking water if even small quantities leak into the ground.

13. Disposal Considerations

13.1 Waste treatment methods

Disposal together with normal waste is not allowed. Special disposal required Product:

according to local regulations. Do not let product enter drains. Contact waste

disposal services.

Empty contaminated packaging's thoroughly. They can be recycled after Contaminated packaging:

thorough and proper cleaning. Packagings that cannot be cleaned are to be

disposed of in the same manner as the product.

No waste code according to the European Waste Catalogue can be assigned European Waste Catalogue No:

for this product, as the intended use dictates the assignment. The waste code

is established in consultation with the regional waste disposer.

14. Transport Information

14.1 UN Number 2880

14.2 UN proper shipping name 2880 Calcium Hypochlorite mixture, hydrated Corrosive

14.3 Transport hazard class(es)

Class 5.1 + 8Classification Code 202 Hazard label 50 **Transport Category** 3 **Tunnel Code** Ε

Special Marking Symbol (fish and tree)

LQ

III 14.4 Packaging Group

14.5 Environmental hazards

Environmentally Hazardous Yes Marine Pollutant Yes

14.6 Special precautions for user No further information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No further information available

15. Regulatory information

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

15.2 Chemical Safety Assessment

Currently we do no have any information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3 R31 Contact with acids liberates toxic gases

R34 Causes burns

R50 Very toxic to aquatic organisms

Full text of H-statements referred to under sections 2 and 3

H272 May intensify fire; oxidiser

H314: Causes severe skin burns and eye damage

H400: Very toxic to aquatic life

H302+EUH031: Harmful if swallowed. Contact with acids liberates toxic gas. H335+H336: May cause respiratory irritation. May cause drowsiness or dizziness

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Abbreviations and acronyms:

ADR: Accord europeen sur le transport des marchandises dangereuse par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS European Inventory of Existing Commercial Chemical Substances.

CAS: Chemicals Abstracts Service (division of the Americal Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Revision 1	Date 2007	By Linda Brueford	Amendment Created
2	24/02/10	Linda Brueford	Sections 2 & 3 swapped round to comply with REACH, inclusion of new Environmentally Hazardous Mark for transport for packagings larger than 5kg and other minor editorial amendments.
3	30/11/10	Linda Brueford	Packing Group changed. GHS label elements added and other minor editorial amendments
4	20/03/12	Linda Brueford	Updated to European Legislation