

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: Sodium Hypochlorite - 14 / 15% with Calgon

CAS No: 7681-52-9 EC No: 231-668-3

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: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (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

Skin CorrosionCategory 1BH314Acute Aquatic toxicityCategory 1H400

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

R31
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

Hazard symbols:





Signal word: Danger

Hazard statements: H314 Causes severe skin burns and eye damage

H400 Very toxic to aquatic life

Trade Name: Sodium Hypochlorite 14/15% with Calgon

2. Hazard Identification

Precautionary statements:

Avoid breathing gas/mist/vapours/spray Prevention P261

> P273: Avoid release to the environment

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

Response

P301+330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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

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

Sodium Hypochlorite, solution

2.3 Other Hazards No other information is available

3. Composition/information on ingredients

3.1 Substances Sodium Hypochlorite, solution

Chemical nature: Aqueous solution

Chemical Name Identification Numbers Amount %

Sodium hypochlorite, solution Index-No: 017-011-00-1

Cas No: 7681-52-9

EC No: 231-668-3 >=10 - <=15

Registration No: 01-2119488154-34-xxxx

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 If Inhaled:

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

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

contact lenses. Consult an eye specialist immediately. Go to an ophthalmic hospital if In case of eye contact:

possible.

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

unconscious person. If swallowed ,, do not induce vomiting - seek medical advice. If a

person vomits when lying on his back place him in the recovery position.

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4. First Aid measures continued

4.2 Most important symptoms and effects, both acute and delayed

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

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

Indication of immediate medical attention and special treatment needed 4.3

No information available Treatment

5. Fire fighting measures

5.1 Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and Suitable extinguishing media:

the surrounding environment.

Unsuitable extinguishing media: Except

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire fighting: Fire may cause evolution of

Chlorine

Hydrogen chloride gas

chlorine oxides

5.3 Advice for fire-fighters

Special protective equipment: In the event of fire, wear self-contained breathing apparatus.

Wear appropriate body protection (full protective suit).

Cool closed containers exposed to fire with water spray. Heating will cause a Further Information:

pressure rise -with a risk of bursting.

Collect contaminated fire extinguishing water separately. This must not be

discharged into drains.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Wear respiratory protection. Keep people

Personal Precautions: away from and upwind of spill/leak.

Provide adequate ventilation. Danger of slipping if spilled. Avoid contact with skin & eyes. Do not breathe vapour.

6.2 Environmental precautions

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

Avoid subsoil penetration

If the product contaminates rivers and lakes or drains - inform respective

authorities.

If material reaches soil inform authorities responsible for such cases.

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6. Accidental release Measures cont

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders) Keep in suitable closed containers for disposal.

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 in

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Hygiene measures:

Do not keep the container sealed. Handle and open container with care.

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Use respirator with

appropriate filter if vapours are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Keep away from food, drink and animal feeding stuffs. Smoking, eating and

drinking should be prohibited in the application area. Wash hands before 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.

7.2 Conditions for safe storage, including any incompatibilities.

containers:

Requirements for storage areas and Keep in an area equipped with alkali resistant flooring. Keep only in the original

container. Store in a receptacle equipped with a vent.

explosion:

Advice on protection against fire and The product is not flammable. Normal measures for preventative fire

protection.

Keep in a well-ventilated place. Protect against light. Store in a cool place. Do Further information:

not keep the container sealed.

Keep away from food, drink and animal feedstuffs. Do not store together with Advice on common storage:

acids and ammonium salts.

German storage class: 8B: Non combustible substances, corrosive

No further information available Storage Temperature:

7.3 Specific end uses

Specific use(s) No information available

8. Exposure control/personal protection

8.1 Control parameters

Other OELs

Component: Chlorine CAS No: 1310-73-2

Regulatory Basis: EU. Indicative Exposure and Directives relating to the protection of

risks related to work exposure to chemical, physical, and biological agents.

Regulatory List: EU ELV

Value type: Short Term Exposure Limits (WELS)

Form of exposure: EH40 WEL Value: 0.5ppm Value: 1.5 mg/m³ Indicative

Regulatory Basis: UK. EH40 Workplace Exposure Limits (WELS)

Regulatory List: EH40 WEL

Value type: Short Term Exposure Limit (STEL)

Value: 0.5ppm Value: 1.5 mg/m³

8.2 Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Advice: Recommended Filter type:

Combination filter: B-P2 Combination filter: B-P3

Hand protection The glove material has to be impermeable to the product/the substance/preperation.

Advice: Take note of the information given by the producer concerning permeability,

break through times, and of special and of special working conditions (mechanical strain,

duration of contact).

Protective gloves should be replaced at first sign of wear.

Material: butyl rubber

Gloves 8h Glove thickness: 0.5mm

Material: Polyvinylchloride

Gloves 8h Glove thickness: 0.5mm

Material: Polychloropene

Gloves 8h Glove thickness: 0.5mm

Eye protection Advice: Tightly fitting saftey goggles

Skin and body protection

Advice: alkali resistant protective clothing

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8. Exposure control/personal protection Cont.....

8.2 Exposure controls

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.

If the product reaches soil inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Liquid

Colour: Yellowish Green
Odour: Slight chlorine

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

pH @ 20°C: >11

Melting point: -17 ° C

Boiling point: Currently we do not have any information from our supplier about this.

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

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: To avoid thermal decomposition do not overheat

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

Explosive properties: Not explosive

Oxidising properties: Currently we do not have any information from our supplier about this.

9.2 Other Information No 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

Decomposes on exposure to light.

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10. Stability and reactivity

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

Materials to avoid Acids Ammonium compounds

Acetic anhydride Organic materials
Hydrogen peroxide metal salts
nickel copper

iron

10.6 Hazardous decomposition products

Hazardous decomposition products: Hydrogen chloride gas

Chlorine chlorine oxides

11. Toxilogical Information

11.1 Information on toxilogical effects

Product: Sodium Hypochlorite Solution 10-15% CAS No: 7681-52-9

Irritation Skin

Species rabbit

Result Severe skin irritation

Method OECD Test Guideline 404

Species human

Result: corrosive effects

Eyes

Species rabbit

Result: corrosive effects

Remarks: risk of serious damage to eyes

Other relevant toxicity: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the

oesophagus and the stomach

Acute toxicity

Oral

Value type LD50

Value >2,000 mg/kg

Species rat

Dermal

Value type LD50 Value >2,000 mg/kg

Species rabbit

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11.1 Information on toxilogical effects

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Irritation Skin

Species rabbit

Result Severe skin irritation

Method OECD Test Guideline 404

Species human

Result: corrosive effects

Eyes

Species rabbit

Result: corrosive effects

Remarks: risk of serious damage to eyes

Sensitisation

Species guinea pig
Result: not sensitizing

12. Ecological Information

12.1 Toxicity

Component: Sodium Hypochlorite Solution 10-15% CAS No: 7681-52-9

CL Active

Acute toxicity Fish

Species: Pimephales promelas

Exposure time: 96h Value type: LC50

Value: 0.22 - 0.62 mg/l

Toxicity to daphnia and other aquatic invertebrates

Species: Daphna magna

Exposure time: 96 h
Value type: EC50
Value: 2.1 mg/l

algae

Species: Desmodesmus subspicatus (green algae)

Exposure time: 24h
Value type: EC50
Value: 28 mg/l

Sodium Hypochlorite 14/15% with Calgon

12. Ecological Information

Component: Sodium Hypochlorite Solution 10-15% CAS No: 7681-52-9

12.2 Persisteance and degradability

Persistence

Remarks: no data available

Biogradability

The methods for determining the biological degradability are not applicable to inorganic

Remarks: substances.

12.3 Bioaccumlative potential

Bioaccumulation

Remarks: Does not bioaccumulate

12.4 Mobility in soil

Mobility

Medium: Water

Remarks: The product is mobile in water environment

Medium: Soil

Remarks: Highly mobile in soils

12.5 Results of PBT and PvB

Results of PBT and PvB assessment

Remarks: No information available

12.6 Other adverse effects

Additional ecological information

Remarks: All numerical values for ecotoxicity effects are calculated on the pure substances.

Do not flush into surface water or sanitary water system

13. Disposal Considerations

13.1 Waste treatment methods

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

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

Product: 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 1791

14.2 UN proper shipping name

ADR: Hypochlorite Solution RID: Hypochlorite Solution IMDG: Hypochlorite Solution

14.3 Transport hazard class(es)

ADR Class 8 (Label, classification code; Hazard ID; Tunnel 8;C9;80; (E)

RID Class 8 (Label, Classification Code; Hazard ID;) 8;C9;80;

IMDG Class 8 (Labels; EmS) 8, F-A,S-B

14.4 Packaging Group

ADR: III RID: III IMDG: III

14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR: Fish and tree Labelling according to 5.2.1.8 RID: Fish and tree Labelling according to 5.2.1.8 IMDG: Fish and tree

Classification as environmentally hazardous according to 2.9.3 IMDG: Yes

14.6 Special precautions for user

Note: Not applicable

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

IMDG: Not applicable

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

H314 Causes severe skin burns and eye damage

H400 Very toxic to aquatic life

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	Date	Ву	Amendment
1	18/10/10	Linda Brueford	GHS label elements added and other minor editorial amendments
2	11/03/11	Linda Brueford	Updated to 2011 European requirements

