Scientific Laboratory Supplies - Safety Data Sheet

CHE3458

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
Date printed: 16 September 2024

Section 1. Identification

1.1 Product Identifier CHE3458

Product Name PURECHLOR 15 (SODIUM HYPOCHLORITE SOLUTION) 25L.

CAS Number 7681-52-9

REACH Registration No 01-2119488154-34-XXXX

Molecular Formula NaOC1 =74.44

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Scientific Laboratory Supplies

SCIENTIFIC LABORATORY SUPPLIES Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

4 Emergency Telephone (08:00-17:00) 0115 9821111

(24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage.

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Causes severe skin burns and eye damage. Very toxic to aquatic life.

Precautionary Statements Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED:

Rinse mouth. Do NOT induce vomiting. Store locked up. Avoid release to the environment.

Supplemental Hazard Information (EU) Contact with acids liberates toxic gas.

Section 3. Composition

3.1 Substances

Component	· · · · · · · · · · · · · · · · · · ·		REACH No. Conc w/w		CLP Classification (1272/2008/CE)	
Available chlorine			01-2119488154-34-XXXX	14% Skin Corr. 1B,Aquatic Acute 1		
Sodium hydroxide			01-2119457892-27-XXXX	0.4%	Skin Corr. 1A	

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. If material has reacted with an acid to form, chlorine, seek immediate medical assistance.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position.

OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

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4.2 Most important symptoms and effects, both acute & delayed.

Inhalation may cause nausea, dizziness and headache. Inhalation may cause irritation of mucous membranes, coughing and dyspnoea. Inhalation may cause tissue damage and pneumonia.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it

is safe to do so. If contact with acid is possible, use full protective clothing and breathing apparatus.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Large quantities must be stored in vented containers.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

l	Component	CAS No	Concentration	Workplace Exposure Limits			
				Long Terr	m (8hr TWA)	Short Term 15min period)	
	Available chlorine	7681-52-9	14%	-	-	0.5 ppm	1.5 mg/m-3
	Sodium hydroxide		0.4%	-	-	-	2.0 mg/m-3

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use PVC gauntlets.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Clear very pale yellow / yellow-green coloured solution.

Odour Faint odour of chlorine.

pH 13 @ 20°C
Boiling Point 110°C
Melting Point -17°C
Flash Point Not applicab

Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density 1.2600

Water Solubility Completely soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Very slowly decomposes with release of oxygen, this is accelerated by elevated temperatures.

Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Avoid exposure to heat and strong sunlight.

10.5 Incompatable Materials Acids, ammonium salts, methanol, hydrocarbons, copper, nickel, iron and monel metal.

Hazardous Decomposition Decomposes to form flammable oxygen and highly toxic chlorine gas.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

The liquid is be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe Eyes

irritation and corneal scarring to permanent blindness.

Skin The liquid will cause burns.

LD50 Skin Not available

Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Ingestion may Ingestion

lead to formation of very toxic chlorine gas by reaction with stomach contents.

LD50 Oral 2900-3400mg/kg Mouse

If material has reacted with acid to form toxic chlorine gas and this has been inhaled there is a serious risk of Inhalation

brachial an pulmonary oedema. Symptoms may be delayed for 48 hours or more.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Material will degrade slowly to sodium chloride, sodium chlorate and oxygen. Toxic to aquatic organisms. Very

toxic to fish.

LC50 Algal Not available LC50 Crustacea Not available

LC50 Fish Not available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential No data available. No data available.

12.4 Mobility in soil

Results of PBT & vPvB assessment

Assessment not required.

Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and

national regulations.

Section 14. Transport Information

14.1 UN Number 1791

14.2 Proper Shipping Name Hypochlorite solution

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group III

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 1B; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms





Hazard Statements H314, H400

Causes severe skin burns and eye damage. Very toxic to aquatic life.

Precautionary Statements P280, P303+P361+P353, P305+P351+P338, P301+P330+P331, P405, P273

Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Store locked up. Avoid release to the environment.

Supplemental Hazard Information (EU)

EUH031

Contact with acids liberates toxic gas.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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