



SAFETY DATA SHEET EVERCHLOR INDUSTRIAL / AGRICULTURAL/ HISPEC

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	EVERCHLOR INDUSTRIAL / AGRICULTURAL/ HISPEC
Product number	10011
Synonyms; trade names	EVERCHLOR AGRICULTURAL SOL,HISPEC CHLORINE LIQUID

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Disinfectant. Chemical Intermediate
-----------------	-------------------------------------

1.3. Details of the supplier of the safety data sheet

Supplier	Univar Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 sds@univar.com +44 1274 267306
----------	--

1.4. Emergency telephone number

Emergency Contact Number (Office Hours)	+44 1274 267346
Emergency Contact Number (Outside Office Hours)	+441865 407333
Sds No.	10011

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Not Classified
Health hazards	Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) C;R34. N;R50. R31.

2.2. Label elements

Pictogram



EVERCHLOR INDUSTRIAL / AGRICULTURAL/ HISPEC

Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P260 Do not breathe vapour/spray. P273 Avoid release to the environment. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with national regulations.
Supplemental label information	EUH031 Contact with acids liberates toxic gas.
Contains	SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

2.3. Other hazards**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE			10-30%
CAS number: 7681-52-9	EC number: 231-668-3	REACH registration number: 01-2119488154-34-0000	
M factor (Acute) = 10	M factor (Chronic) = 1		
Classification	Classification (67/548/EEC or 1999/45/EC)		
Met. Corr. 1 - H290	C;R34 R31 N;R50		
Skin Corr. 1B - H314			
Eye Dam. 1 - H318			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			
POTASSIUM PERMANGANATE			<0.1%
CAS number: 7722-64-7	EC number: 231-760-3	REACH registration number: 01-2119480139-34	
M factor (Acute) = 10	M factor (Chronic) = 10		
Classification	Classification (67/548/EEC or 1999/45/EC)		
Ox. Sol. 2 - H272	O;R8 Xn;R22 N;R50/53		
Acute Tox. 4 - H302			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately.
-------------------	--

EVERCHLOR INDUSTRIAL / AGRICULTURAL/ HISPEC

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

Specific hazards Chlorine. Oxygen.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

Environmental precautions Avoid or minimise the creation of any environmental contamination. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Protect from light. Store away from the following materials: Acids.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE (CAS: 7681-52-9)

Ingredient comments	No exposure limits known for ingredient(s).
DNEL	Industry - Inhalation; Long term : 1.55 mg/m ³ Industry - Inhalation; Short term : 3.1 mg/m ³ Consumer - Inhalation; Long term : 1.55 mg/m ³ Consumer - Inhalation; Short term : 3.1 mg/m ³
PNEC	- Sediment (Freshwater); 0.00021 mg/l - Sediment (Marinewater); 0.000042 mg/l - Intermittent release; 0.00026 mg/l - STP; 0.03 mg/l

POTASSIUM PERMANGANATE (CAS: 7722-64-7)

Ingredient comments	No exposure limits known for ingredient(s).
----------------------------	---

EVERCHLOR INDUSTRIAL / AGRICULTURAL/ HISPEC

8.2. Exposure controls

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. Neoprene. Polyvinyl chloride (PVC). Rubber (natural, latex).
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Use cartridge respirator Type B P3

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Colour	Various colours.
Odour	Chlorine.
pH	pH (concentrated solution): >11
Melting point	-17°C
Initial boiling point and range	>100°C @
Relative density	1.20 - 1.27 @ °C
Solubility(ies)	Completely soluble in water.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid Strong acids. Ammonia or amines. Hydrocarbons. Methanol.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information on ingredients.

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,100.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rat

EVERCHLOR INDUSTRIAL / AGRICULTURAL/ HISPEC

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 10,500.0

Species Rat

ATE inhalation (vapours mg/l) 10,500.0

Aspiration hazard

Aspiration hazard None.

Inhalation May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause respiratory system irritation.

Ingestion May cause chemical burns in mouth, oesophagus and stomach.

Skin contact May cause serious chemical burns to the skin.

Eye contact Causes burns.

Target organs Respiratory system, lungs

SECTION 12: Ecological Information

Ecotoxicity The product contains a substance which is very toxic to aquatic organisms.

Ecological information on ingredients.

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

Ecotoxicity The product contains a substance which is very toxic to aquatic organisms.

12.1. Toxicity

Acute toxicity - fish LC₅₀, 96 hours: 0.01-0.1 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.01-0.1 mg/l, Daphnia magna

Ecological information on ingredients.

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

Toxicity Very toxic to aquatic organisms.

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.06 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.141 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.04 mg/l, Scenedesmus subspicatus

EVERCHLOR INDUSTRIAL / AGRICULTURAL/ HISPEC

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - fish early life stage NOEC, 28 days: 0.04 mg/l, Freshwater fish

12.2. Persistence and degradability

Ecological information on ingredients.

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

Persistence and degradability

The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Ecological information on ingredients.

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient : -3.42

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Ecological information on ingredients.

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1791

EVERCHLOR INDUSTRIAL / AGRICULTURAL/ HISPEC

UN No. (IMDG) 1791

UN No. (ICAO) 1791

14.2. UN proper shipping name

Proper shipping name (ADR/RID) HYPOCHLORITE SOLUTION

Proper shipping name (IMDG) HYPOCHLORITE SOLUTION

Proper shipping name (ICAO) HYPOCHLORITE SOLUTION

Proper shipping name (ADN) HYPOCHLORITE SOLUTION

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID subsidiary risk

ADR/RID label 8

IMDG class 8

IMDG subsidiary risk

ICAO class/division 8

ICAO subsidiary risk

Transport labels

**14.4. Packing group**

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

**14.6. Special precautions for user**

EmS F-A, S-B

Emergency Action Code 2X

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**SECTION 15: Regulatory information**

EVERCHLOR INDUSTRIAL / AGRICULTURAL/ HISPEC

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

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). This product may impact SEVESO storage regulations.
-----------------------	---

15.2. Chemical safety assessment

SECTION 16: Other information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	25/03/2015
Revision	02
Supersedes date	27/07/2010
SDS number	10011
SDS status	Approved.
Signature	Jitendra Panchal
Risk phrases in full	R31 Contact with acids liberates toxic gas. R34 Causes burns. R50 Very toxic to aquatic organisms.
Hazard statements in full	H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.