

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

CHLORINE WATER

Product Code: 00743

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CHLORINE WATER

CAS-No.: NA

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

1.1. Product identifier

Product form : Mixture
Trade name : Chlorine Water

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company : Chemnovo Synthesis Pvt Ltd.
N-226 Near Kumbhavali Naka
Tarapur MIDC, Boisar-401 506
Palghar, Maharashtra
Telephone : +91 7400096089
Email: export@chemnovo.in

1.4. Emergency telephone number

Emergency number : + 91 7400096089 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product identifier	%	Classification according
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	>= 99	Not classified
Chlorine	(CAS-No.) 7782-50-5 (EC-No.) 231-959-5	1 - 5	Acute Tox. 3 (Inhalation), H331 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335Aquatic Acute 1, H400

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	:	Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	:	Wash skin with plenty of water.
First-aid measures after eye contact	:	Rinse immediately with plenty of water.
First-aid measures after ingestion	:	Rinse mouth. Do not induce vomiting.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighter

Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	:	Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	:	Use personal protective equipment as required.
Emergency procedures	:	Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

No additional information available

8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state : Liquid

Colour : Pale yellow.

Odour : chlorine like.

Odour threshold : No data available

pH : 1.734

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

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Relative density	:	No data available
Density	:	1.02 g/cm ³
Solubility	:	Water: Soluble in water
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Not classified
pH	:	1.734
Serious eye damage/irritation	:	Not classified
pH	:	1.734
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

SECTION 12: Ecological information**12.1. Toxicity**

Ecology - water : Very toxic to aquatic life.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

14.1. UN number

UN-No. (ADR)	:	1760
UN-No. (IMDG)	:	1760
UN-No. (IATA)	:	1760
UN-No. (ADN)	:	1760
UN-No. (RID)	:	1760

14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (IMDG)	:	CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (IATA)	:	Corrosive liquid, n.o.s.
Proper Shipping Name (ADN)	:	CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (RID)	:	CORROSIVE LIQUID, N.O.S.
Transport document description (ADR)	:	UN 1760 CORROSIVE LIQUID, N.O.S., 8, II, (E)
Transport document description (IMDG)	:	UN 1760 CORROSIVE LIQUID, N.O.S., 8, II
Transport document description (IATA)	:	UN 1760 Corrosive liquid, n.o.s., 8, II
Transport document description (ADN)	:	UN 1760 CORROSIVE LIQUID, N.O.S., 8, II
Transport document description (RID)	:	UN 1760 CORROSIVE LIQUID, N.O.S., 8, II

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14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



AND

Transport hazard class(es) (ADN) : 8
Danger labels (AND) : 8

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RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8**14.4. Packing group**Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II**14.5. Environmental hazards**Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available**14.6. Special precautions for user**

- Overland transport

Classification code (ADR) : C9
Special provisions (ADR) : 274
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : Mp15
Portable tank and bulk container instructions (ADR) : T11
Portable tank and bulk container special provisions (ADR) : TP2, Tp27

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Tank code (ADR)	:	L4BN		
Vehicle for tank carriage	:	AT		
Transport category (ADR)	:	2		
Hazard identification number (Kemler No.)	:	80		
Orange plates	:	<table border="1"><tr><td>80</td></tr><tr><td>1760</td></tr></table>	80	1760
80				
1760				
Tunnel restriction code (ADR)	:	E		
EAC code	:	2X		
APP code	:	B		
- Transport by sea				
Special provisions (IMDG)	:	274		
Limited quantities (IMDG)	:	1L		
Excepted quantities (IMDG)	:	E2		
Packing instructions (IMDG)	:	P001		
IBC packing instructions (IMDG)	:	IBC02		
Tank instructions (IMDG)	:	T11		
Tank special provisions (IMDG)	:	TP2, Tp27		
EmS-No. (Fire)	:	F-A		
EmS-No. (Spillage)	:	S-B		
Stowage category (IMDG)	:	B		
Stowage and handling (IMDG)	:	Sw2		
MFAG-No	:	154		
- Air transport				
PCA Excepted quantities (IATA)	:	E2		
PCA Limited quantities (IATA)	:	Y840		
PCA limited quantity max net quantity (IATA)	:	0.5L		
PCA packing instructions (IATA)	:	851		
PCA max net quantity (IATA)	:	1L		
CAO packing instructions (IATA)	:	855		
CAO max net quantity (IATA)	:	30L		
Special provisions (IATA)	:	A3		
ERG code (IATA)	:	8L		
- Inland waterway transport				
Classification code (ADN)	:	C9		
Special provisions (ADN)	:	274		
Limited quantities (ADN)	:	1L		
Excepted quantities (ADN)	:	E2		
Carriage permitted (AND)	:	T		

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Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0
- Rail transport		
Classification code (RID)	:	C9
Special provisions (RID)	:	74
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001, IBC02
Mixed packing provisions (RID)	:	Mp15
Portable tank and bulk container instructions (RID)	:	T11
Portable tank and bulk container special provisions (RID)	:	TP2, Tp27
Tank codes for RID tanks (RID)	:	L4BN
Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	Ce6
Hazard identification number (RID)	:	80

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.chemnovo.in for additional terms and conditions of sale.

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