



according to Regulation (EC) No 1907/2006

Revision date: 23.02.2023	hthetic sea water according to AS Product code: 25895	· · ·	Page 1 of 9
SECTION 1: Identification of the	e substance/mixture and of the comp	any/undertaking	
1.1. Product identifier Synthetic sea water accordin	g to ASTM D1141-98 (2013)		
1.2. Relevant identified uses of the	substance or mixture and uses advised	against	
	tances as such or in preparations at indus main (administration, education, entertainn		
Uses advised against Do not use for private purpos	ses (household).		
1.3. Details of the supplier of the s	<u>afety data sheet</u>		
Company name: Street: Place:	AnalytiChem GmbH Stempelstraße 6 D-47167 Duisburg		
Telephone: e-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290	
Contact person: e-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117	
1.4. Emergency telephone number:	For Hazardous Materials [or Dangero Exposure, or Accident Call CHEMTRI 1-800-424-9300 Outside USA and Ca accepted)	EC Day or Night Within USA and Canada:	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution



according to Regulation (EC) No 1907/2006

Synthetic sea water according to ASTM D1141-98 (2013)

Revision date: 23.02.2023

Product code: 25895

Page 2 of 9

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
Classification (Regulation (EC) No 1272/2008)				
7647-14-5	sodium chloride			1 - < 5 %
	231-598-3		01-2119485491-33	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE							
CAS No	AS No EC No Chemical name						
	Specific Conc. Limits, M-factors and ATE						
7647-14-5	231-598-3	sodium chloride	1 - < 5 %				
	dermal: LD5	0 = > 10000 mg/kg; oral: LD50 = 3550 mg/kg					

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media no restriction

5.2. Special hazards arising from the substance or mixture Non-combustible liquids

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.



according to Regulation (EC) No 1907/2006

Synthetic sea water according to ASTM D1141-98 (2013)

Revision date: 23.02.2023

Product code: 25895

Page 3 of 9

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle and open container with care. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Wash contaminated clothing prior to re-use. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Further information on handling

Wash contaminated clothing before reuse. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage No data available

Revision No: 1,01 - Replaces version: 1,00



according to Regulation (EC) No 1907/2006

Synthetic sea water according to ASTM D1141-98 (2013)

Revision date: 23.02.2023

Product code: 25895

Page 4 of 9

Further information on storage conditions

Store in a dry place.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
7647-14-5	sodium chloride				
Consumer DN	EL, long-term	dermal	systemic	126,65 mg/kg bw/day	
Consumer DN	EL, acute	dermal	systemic	126,65 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	126,65 mg/kg bw/day	
Consumer DNEL, acute		oral	systemic	126,65 mg/kg bw/day	
Worker DNEL,	long-term	inhalation	systemic	2068,62 mg/m ³	
Worker DNEL,	acute	inhalation	systemic	2068,62 mg/m ³	
Worker DNEL, acute		dermal	systemic	295,52 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	443,28 mg/m ³	
Consumer DNEL, acute		inhalation	systemic	443,28 mg/m ³	
Worker DNEL, long-term		dermal	systemic	295,52 mg/kg bw/day	

PNEC values

CAS No	Substance			
Environmental compartment Value				
7647-14-5	7647-14-5 sodium chloride			
Freshwater	Freshwater 5 mg/l			
Micro-organism	500 mg/l			
Soil	4,86 mg/kg			

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Recommended glove articles: KCL 741 Dermatril® L



according to Regulation (EC) No 1907/2006

Synthetic sea water according to ASTM D1141-98 (2013)

Revision date: 23.02.2023

Product code: 25895

Page 5 of 9

Recommended material: NBR (Nitrile rubber) 0,11mm Wearing time with permanent contact: >480min

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm Wearing time with occasional contact (splashes): >480min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>.<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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	Physical state:	Liquid	
	Colour:	clear	
	Odour:	odourless	
	Odour threshold:	No data available	
	Melting point/freezing point:		No data available
	Boiling point or initial boiling point and		No data available
	boiling range:		
	Flammability:		No data available
	Lower explosion limits:		No data available
	Upper explosion limits:		No data available
	Flash point:		No data available
	Auto-ignition temperature:		No data available
	Decomposition temperature:		No data available
	pH-Value:		No data available
	Viscosity / kinematic:		No data available
	Water solubility:		No data available
	Solubility in other solvents		
	No data available		
	Partition coefficient n-octanol/water:		No data available
	Vapour pressure:		No data available
	Vapour pressure:		No data available
	Density:		No data available
	Bulk density:		No data available
	Relative vapour density:		No data available
<u>9.</u>	2. Other information		
	Information with regard to physical haza	rd classes	
	Explosive properties		
	No data available		
	Sustaining combustion:		No data available



according to Regulation (EC) No 1907/2006

Synthetic sea water according to ASTM D1141-98 (2013)

evision date: 23.02.2023	Product code: 25895	Page 6 of 9	
Self-ignition temperature			
Solid:	No data available		
Gas:	No data available		
Oxidizing properties			
No data available			
Other safety characteristics			
Evaporation rate:	No data available		
Solvent separation test:	No data available		
Solvent content:	0		
Solid content:	0		
Sublimation point:	No data available		
Softening point:	No data available		
Pour point:	No data available		
No data available:			
Viscosity / dynamic:	No data available		
Flow time:	No data available		
Further Information			

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.



according to Regulation (EC) No 1907/2006

Synthetic sea water according to ASTM D1141-98 (2013)

Revision date: 23.02.2023

Product code: 25895

Page 7 of 9

CAS No	Chemical name	Chemical name						
	Exposure route	Dose		Species	Source	Method		
7647-14-5	sodium chloride							
	oral	LD50 mg/kg	3550	Rat	Study report	The study methodology followed appeared		
	dermal	LD50 mg/kg	> 10000	Rabbit	Study report	The study methology followed appeared to		

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the mixture itself.

Further information

There are no data available on the mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7647-14-5	sodium chloride						
	Acute fish toxicity	LC50 mg/l	5840	96 h	Lepomis macrochirus	Study report (1985)	other: ASTM E729
	Acute crustacea toxicity	EC50 mg/l	4136	48 h	Daphnia magna	J. fish. Res. Bd. Canada, 29: 1691-1700.	OECD Guideline 202
	Fish toxicity	NOEC	252 mg/l	33 d	Pimephales promelas	Study report (1985)	OECD Guideline 210
	Crustacea toxicity	NOEC	314 mg/l	21 d	Daphnia pulex	Memorandum of agreement No. 5429, Kentuc	OECD Guideline 211



according to Regulation (EC) No 1907/2006 Synthetic sea water according to ASTM D1141-98 (2013)

Revision date: 23.02.2023

Product code: 25895

Page 8 of 9

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. No data available

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

There are no data available on the mixture itself.

Further information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

14.1. UN number or ID number:

Land transport (ADR/RID)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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according to Regulation (EC) No 1907/2006

Synthetic sea water according to ASTM D1141-98 (2013)

Revision date: 23.02.2023

Product code: 25895

Page 9 of 9

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

National regulatory information

Water hazard class (D):

Additional information

No data available

SECTION 16: Other information

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)