SAFETY DATA SHEET

BCS Soft Wash

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:	BCS Soft Wash
Product no.:	178010
Unique formula identifier (UFI):	2M8G-6MMU-36DW-HAU9

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

Relevant identified uses of the substance or mixture:	Cleaning product Restricted to professional users.
Uses advised against :	None known.

1.3. Details of the supplier of the safety data sheet

Company and address:	**MPE International AB** Utmarksvägen 23 S-802 91 Gävle
Contact person:	MPEI
E-mail:	info@mpei.se
Revision:	20/08/2025
SDS Version:	3.0
Date of previous version:	18/01/2025 (2.0)

1.4. ▼Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 111 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Skin Corr. 1; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.
Aquatic Acute 1; H400, Very toxic to aquatic life.
Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s): Causes severe skin burns and eye damage. (H314)
Very toxic to aquatic life with long lasting effects. (H410)

Precautionary statement(s):

▼*General:* Not applicable.

Prevention: Do not breathe vapour/mist. (P260)
Avoid release to the environment. (P273)
Wear eye protection/protective gloves/protective clothing. (P280)

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . (P303+P361+P353)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

▼*Storage:* Not applicable.

▼*Disposal:* Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances: Sodium hypochlorite, solution ...% Cl active
Sodium hydroxide
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

Additional labelling:

UFI: 2M8G-6MMU-36DW-HAU9

Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law:

>15% - <30%
· Chlorine-based bleaching Agents
< 5%

· Non-ionic surfactants
· Perfumes (CITRAL)

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Sodium hypochlorite, solution ...% Cl active	CAS No.: 7681-52-9 EC No.: 231-668-3 UK-REACH: Index No.: 017-011-00-1	15-25%	EUH031 Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	
Sodium hydroxide	CAS No.: 1310-73-2 EC No.: 215-185-5 UK-REACH: Index No.: 011-002-00-6	<1%	Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	CAS No.: 308062-28-4 EC No.: 931-292-6 UK-REACH: Index No.:	<1%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	
Citral	CAS No.: 5392-40-5 EC No.: 226-394-6 UK-REACH: Index No.: 605-019-00-3	<0.05%	Skin Irrit. 2, H315 Skin Sens. 1, H317	[9]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[9] Identified by EU as a fragrance ingredients, known to cause allergic contact dermatitis (Regulation (EC) No 1223/2009 on cosmetic products)

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation:	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
Skin contact:	Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment. Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
Eye contact:	If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.
Ingestion:	In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit

from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns: Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Halogenated compounds
Some metal oxides
Oxygen, hypochlorous acid, chlorine.

5.3. ▼Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.
Hazchem Code: 2X

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. ▼Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material:	Always store in containers of the same material as the original container.
▼*Storage conditions:*	No specific requirements.
Incompatible materials:	Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Sodium hydroxide

Short term exposure limit (15 minutes) (mg/m³): 2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

Citral

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Dermal	140 µg/cm²
Long term – Local effects - Workers	Dermal	140 µg/cm²
Long term – Systemic effects - General population	Dermal	1 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	1.7 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	2.7 mg/m³
Long term – Systemic effects - Workers	Inhalation	9 mg/m³
Long term – Systemic effects - General population	Oral	600 µg/kg bw/day

Sodium hydroxide

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1 mg/m³
Long term – Local effects - Workers	Inhalation	1 mg/m³

Sodium hypochlorite, solution ...% Cl active

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1.55 mg/m³
Long term – Local effects - General population	Inhalation	1,55 mg/m³
Long term – Local effects - Workers	Inhalation	1.55 mg/m³
Long term – Local effects - Workers	Inhalation	1,55 mg/m³
Long term – Systemic effects - General population	Inhalation	1.55 mg/m³
Long term – Systemic effects - Workers	Inhalation	1.55 mg/m³
Long term – Systemic effects - Workers	Inhalation	1,55 mg/m³
Long term – Systemic effects - Workers	Inhalation	1,55 mg/m³
Short term – Local effects - General population	Inhalation	3.1 mg/m³
Short term – Local effects - General population	Inhalation	3,1 mg/m³
Short term – Local effects - Workers	Inhalation	3.1 mg/m³
Short term – Local effects - Workers	Inhalation	3,1 mg/m³
Short term – Systemic effects - General population	Inhalation	3.1 mg/m³
Short term – Systemic effects - General population	Inhalation	3,1 mg/m³
Short term – Systemic effects - Workers	Inhalation	3.1 mg/m³

Short term – Systemic effects - Workers	Inhalation	3,1 mg/m³
Long term – Systemic effects - General population	Oral	260 µg/kg bw/day
Long term – Systemic effects - General population	Oral	0,26 mg/kg bw/day

PNEC

Citral

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		6.78 µg/L
Freshwater sediment		125 µg/kg
Intermittent release (freshwater)		67.8 µg/L
Marine water		678 ng/L
Marine water sediment		12.5 µg/kg
Sewage treatment plant		1.6 mg/L
Soil		20.9 µg/kg

Sodium hypochlorite, solution ...% Cl active

Route of exposure:	**Duration of Exposure:**	**PNEC:**
		11,1 mg/kg
Freshwater		210 ng/L
Freshwater		0,00021 mg/l
Intermittent release (freshwater)		260 ng/L
Marine water		42 ng/L
Marine water		0,000041 mg/l
Predators		11.1 mg/kg
Sewage treatment plant		4.69 mg/L
Sewage treatment plant		0,03 mg/l

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures: The formation of vapours must be kept at a minimum and below current limit values

(see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Ensure that eyewash stations and safety showers are located within easy reach.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally: Wash contaminated clothing before reuse. Use only UKCA marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
B	Class 2 (medium capacity)	Gray	EN14387	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

▼ *Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,2	> 60	EN374-2, EN16523-1, EN388	

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,7	> 480	EN374-2, EN16523-1, EN388, EN421	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN ISO 16321-1	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Yellowish, Transparent
Odour / Odour threshold:	Chlorine (Odour treshold: 0,2 - 0,5 ppm)
pH:	12
Density (g/cm^3):	1.08
Kinematic viscosity:	No data available
Particle characteristics:	Not applicable - product is a liquid

Phase changes

Melting point/Freezing point (°C):	-28,9
Softening point/range (°C):	Does not apply to liquids.
Boiling point (°C):	100
Vapour pressure:	17.5 mmHg
Relative vapour density:	No data available
Decomposition temperature (°C):	No data available

Data on fire and explosion hazards

Flash point (°C):	111
Flammability (°C):	The material is not combustible.
Auto-ignition temperature (°C):	No data available
▼*Lower and upper explosion limit (% v/v):*	No data available.

Solubility

Solubility in water:	100%
n-octanol/water coefficient (LogKow):	-3.42

Solubility in fat (g/L):	No data available

9.2. Other information

Sensitivity to shock:	No
Evaporation rate (n-butylacetate = 100):	No data available
VOC (g/l):	1
Oxidizing properties:	Not applicable
Other physical and chemical parameters:	No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Contact with acids liberates toxic gas.
Reacts violently with alkali metals, metal powders, oxidizing materials and amines.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
Contact with acids liberates toxic gas.

10.4. Conditions to avoid
Protect from sunlight. Do no expose to temperatures exceeding 20 °C/68 °F.

10.5. Incompatible materials
Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen.

10.6. Hazardous decomposition products
Oxygen, hypochlorous acid, chlorine.
Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

▼Acute toxicity

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	OECD 401
Route of exposure:	Oral
Test:	LD50
Result:	1100 mg/kg

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	OECD 402
Species:	Rabbit
Route of exposure:	Dermal

Test:	LD50
Result:	> 20000 mg/kg

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	> 10,5 mg/l

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

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

▼Respiratory sensitisation

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	OECD 406
Result:	No adverse effect observed (not sensitising)

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

Skin sensitisation

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

▼Germ cell mutagenicity

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	OECD 471
Conclusion:	No adverse effect observed

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	OECD 474

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	OECD 475
Conclusion:	No adverse effect observed

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

Carcinogenicity

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

Reproductive toxicity

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.

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

▼Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	LC50
Species:	Fish, Oncorhynchus gorbuscha
Duration:	No data available.
Result:	0,032 mg/l

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	OECD 201
Species:	Algae
Duration:	No data available.
Test:	ERC50
Result:	0,0499 mg/l

Product/substance	Sodium hypochlorite, solution ...% Cl active
Test method:	EC50
Species:	Crustacean, Daphnia magna
Duration:	No data available.
Result:	0,026 mg/l

Product/substance	Sodium hydroxide
Species:	Fish
Duration:	No data available.
Result:	35 - 189 mg/l

Product/substance	Sodium hydroxide
Species:	Crustacean, Ceriodaphnia dubia
Duration:	48 hours
Test:	EC50
Result:	40,4 mg/l

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

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

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)
HP 8 – Corrosive
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

20 01 29* Detergents containing dangerous substances

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1791	HYPOCHLORITE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C9 	III	Yes	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1791	HYPOCHLORITE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C9 	III	Yes	Limited quantities: 5 L EmS: F-A S-B See below for additional information.
IATA	UN1791	HYPOCHLORITE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C9 	III	Yes	See below for additional information.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.
ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
Hazchem Code: 2X

14.6. Special precautions for user
Not applicable.

14.7. Maritime transport in bulk according to IMO instruments
No data available.

SECTION 15: REGULATORY INFORMATION

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

Restrictions for application:	Restricted to professional users. People under the age of 18 shall not be exposed to this product.
Demands for specific education:	No specific requirements.
Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:	E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes
Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law:	>15% - <30% · Chlorine-based bleaching Agents < 5% · Non-ionic surfactants · Perfumes (CITRAL)
Additional information:	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Sources:	The Management of Health and Safety at Work Regulations 1999. Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

EUH031, Contact with acids liberates toxic gas.
H290, May be corrosive to metals.
H302, Harmful if swallowed.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H400, Very toxic to aquatic life.
H410, Very toxic to aquatic life with long lasting effects.
H411, Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Safety person

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.
Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en