

TWS
Code: 00C30

Safety Data Sheet compliant with Regulation (EU) 2020/878

Version **7.0.1**
Creation date : **25/11/22**
Revision: **22/12/22**
Print Date : 11/04/23

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

1.1. Product identifier

Trade name	TWS
UFI :	J95H-N0WF-800X-GCPD

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

Use of the product

ALKALINE DETERGENT
FOOD INDUSTRY
TWS is a caustic detergent containing a defoaming surfactant which allows it to be used in recirculation applications, together with sequestering agents making it suitable for use in soft water areas.

1.3. Details of the supplier of the safety data sheet

Company identification

Out of hours Emergency Telephone Number +44 (0) 1865 407333
UK - Holchem Laboratories Ltd. Gateway House, Pilsworth Road,
Bury, BL9 8RD
Tel : +44 (0) 1706 222288; e-mail info@holchem.co.uk
EU - Kersia Deutschland GmbH, Marie-Curie-Straße 23
53332 Bornheim - Sechtem
Tel: +49 (0)222 790 820

For information regarding this safety data sheet, please contact :
regulatory@kersia-group.com

1.4. Emergency telephone number

Emergency phone number

Emergency direct number (24 hours a day, 7 days a week) : +44 1273 289451

CARECHEM 24
Tel. +44 1865 407333

For information or to report a poisoning incident contact The National Poisons Information Centre:
+353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week).
Healthcare Professionals:
+353 (1) 809 2566 (24 hour service)
NHS: 111

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

Substance corrosive to metals - Category 1	H290: May be corrosive to metals.
Skin corrosion - Category 1A	H314: Causes severe skin burns and eye damage.
Serious damage to eyes - Category 1	H318: Causes serious eye damage.

2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :
Danger

Contains : Sodium hydroxide

Hazard statement(s) :
H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.

Precautionary statement(s) :
P234: Keep only in original packaging.
P280: Wear protective gloves /eye protection/face protection.
P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P313: Get medical advice/attention.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

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2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable as this involves a mixture.

3.2. Mixtures

Chemical nature of the mixture : ALKALINE DETERGENT

Substance(s)	CAS number(s)	EINECS number(s)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Type
20% <= Sodium hydroxide <= 25%	1310-73-2	215-185-5	011-002-00-6	01-2119457892-27	Skin Corr. 1A H314 Met. Corr. 1 H290	C ≥ 5% Skin Corr. 1A H314 2% ≤ C < 5% Skin Corr. 1B H314 0.5% ≤ C < 2% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1)

Type

- (1) : Substance classified as hazardous for health and/or the environment
- (2) : Substance with an exposure limit at the work station.
- Substance of very high concern candidate for the authorisation procedure:
- (3) : Substance considered as PBT (persistent, bioaccumulable, toxic)
- (4) : Substance considered as vPvB (very persistent, very bioaccumulable)
- (5) : Substance considered as carcinogenic category 1A
- (6) : Substance considered as carcinogenic category 1B
- (7) : Substance considered as mutagenic category 1A
- (8) : Substance considered as mutagenic category 1B
- (9) : Substance considered as reprotoxic category 1A
- (10) : Substance considered as reprotoxic category 1B
- (11) : Substance considered as endocrine disrupter
- (12) : Other substance considered hazardous to health or the environment
- (N) : Nanomaterial

Full text of H- and EUH- phrases : see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.
In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

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In the event of inhalation :

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Put into practice respiratory help procedure if needed and get medical advice immediately.

In the event of contact with the skin :

Take off immediately all contaminated clothing.

Wash immediately with plenty of water for 15 minutes at least.

Immediately call a POISON CENTER or doctor/physician.

In the event of contact with the eyes :

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.

Remove contact lenses if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

In the event of ingestion :

Rinse mouth.

Do NOT induce vomiting.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Inhalation : Inhaling vapours or aerosols can irritate respiratory tracts, including irritation of the nose and throat, a cough and difficulty breathing.

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

Treatments : Symptomatic treatment

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media :

Agents compatible with other products involved into fire.

Unsuitable extinguishing media :

None from our knowledge.

5.2. Special hazards arising from the substance or mixture

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TWS is non-flammable.
However, in contact with certain metals (aluminium, zinc...), release of flammable and/or explosive hydrogen if ignited.

5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel :

Wear suitable protective clothing.
Evacuate non-essential staff and those not equipped with individual protection apparatus.

6.1.2. For emergency responders :

Evacuate the personnel to a safe location.
Keep people upwind and away from the location of the flow/leak.
Use personal protection equipment.

6.2. Environmental precautions

Intervention limited to trained staff.
Do not discharge the product directly to sewer or to environment.
Take as soon as possible all incompatible materials away.
Informing the authorities if the product penetrates in the sewers or in the waters of the public domain.

6.3. Methods and material for containment and cleaning up

Small spillage :

Absorb with an inert, non-combustible absorbent material, such as sand, earth, vermiculite or diatomaceous earth.

Large spillage :

Never return spills in original containers for re-use.
Keep in suitable, properly labelled and closed containers for disposal.
Mark out, soak up with an inert absorbant and pump in an emergency tank.

6.4. Reference to other sections

Respect protective measures presented at heading 8.
Refer to section 13 for the elimination.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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Avoid contact with skin, eyes and clothing.
Take off immediately all contaminated clothing.
Do not eat, drink or smoke in work area. Avoid projections during use.
Do not mix with an acid.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage :

Keep only in the original container.
Keep container closed.
Keep in a clean, cool and well-ventilated place away from sources of heat and intense light.
Do not store below the point of freezing.
Store at a temperature not exceeding 40°C.

7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

7.3. Specific end use(s)

No other recommendation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values :

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Substance	CAS number	Country	Type	Value	Unit	Comments	source
Sodium hydroxide	1310-73-2	AUT	OEL 8h	2 inhalable aerosol	mg/m ³		International limit values for chemical agents
			OEL Short term	4 inhalable aerosol	mg/m ³		International limit values for chemical agents
		BEL	OEL 8h	2	mg/m ³	M	International limit values for chemical agents
		CHE	OEL 8h	2 inhalable aerosol	mg/m ³		International limit values for chemical agents
			OEL Short term	2 inhalable aerosol	mg/m ³		International limit values for chemical agents
		DNK	OEL 8h	2	mg/m ³		International limit values for chemical agents
			OEL Short term	2	mg/m ³		International limit values for chemical agents
		ESP	OEL Short term	2	mg/m ³		International limit values for chemical agents
		FRA	VLCT	2	mg/m ³		MSDS supplier
			VLEP 8h	2	mg/m ³	Valeur limite indicative	International limit values for chemical agents
			EMV (Exposure medium value) :	2	mg/m ³		INRS
					ppm		INRS
		GBR	OEL Short term	2	mg/m ³		International limit values for chemical agents
		HRV	OEL Short term	2	mg/m ³		
		HUN	OEL 8h	2	mg/m ³		International limit values for chemical agents
			OEL Short term	2	mg/m ³		International limit values for chemical agents
		LVA	EMV (Exposure medium value) : 8h	0.5	mg/m ³		
		POL	NDS 8h	0,5	mg/m ³		International limit values for chemical agents
			NDSch Short term	1	mg/m ³		International limit values for chemical agents
			STEL	1	mg/m ³		MSDS supplier
			TWA	0,5	mg/m ³		MSDS supplier
		SVN	OEL	2	mg/m ³	opomba: Y	Rules on the protection of workers against the risks related to exposure to chemicals at work in Slovenia (Official Gazette RS, št 100/01, 39/05, 53/07, 102/10, 43/11. ZVZD-1 in 38/15)
STEL	1			opomba: Y	Rules on the protection of workers against the risks related to exposure to chemicals at work in Slovenia (Official Gazette RS, št 100/01, 39/05, 53/07, 102/10, 43/11. ZVZD-1 in 38/15)		
SWE	OEL 8h	1	mg/m ³	Inhalable dust	International limit values for chemical agents		

8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with

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regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

8.2.1. Appropriate engineering controls :

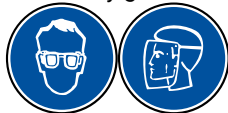
Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.



Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of preferred materials for insulating gloves:

Permeation time \geq 480 min

Butyl rubber.

PVC

Thickness: $>$ 0.5 mm

Fluorinated rubber (Viton)

Nitrile rubber.

Thickness: $>$ 0.3 mm

Thickness: $>$ 0.4 mm



Skin protection :

Wear chemical-resistant protective shoes and clothing.

Wear protective clothing conforms to the standards EN 13034 - type 6

In weak spraying, wear boots or half-boots which protect from chemical risk that comply with standard NF EN 13832-2.



Respiratory protection :

None under normal conditions of use.

During applications that cause aerosols to form, wear a half-mask in compliance with the European standard EN 140 or a complete mask in conformity with the European standard EN 136 equipped with a filter (in conformity with the European standard EN 143) of the following type:

P2: Particles, solid aerosols and liquids

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Thermal hazards :
Not applicable

Health measures :
Safety shower and eye wash fountain near to workplace.
After using, wash systematically all personal protective equipment.
Handle in accordance with good industrial hygiene practices and the safety instructions.

8.2.3. Environmental exposure controls :
Do not discharge the product directly to sewer or to environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid
Colour	Colourless/Pale yellow
Odour	Not available
Odour threshold	Not available
Freezing point	Not available
Melting point	Not applicable
Boiling point	110 - 115 °C
Flammability	Not available
Lower explosive limit	Not applicable
upper explosive limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Pure pH	> 13
pH value at 10g/l	12 - 13
kinematic viscosity	Not available
Solubility	Soluble in water
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Relative density (20°C)	1.26
Mass density	1.26 g/cm³
Vapour density	Not available
Particle characteristics	Not applicable

9.2. Other information

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Explosive properties	Not applicable
Oxidising properties	Not applicable
Evaporation rate:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable in the recommended storage and handling conditions.

10.2. Chemical stability

Stable in the recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Exothermic reactions with acids.

10.4. Conditions to avoid

Excessive heat (>50°C)

10.5. Incompatible materials

Strong acids.
Light metals and/or colored.
Aluminium

10.6. Hazardous decomposition products

None to our knowledge in standard conditions of use.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) N°1272/2008

Substance-related data:

Skin corrosion/irritation

Sodium hydroxide (50%) : Cutaneous contact rat . Corrosive to the skin - MSDS supplier
Sodium hydroxide (50%) : Skin corrosion/irritation . Causes severe burns. - MSDS supplier
Sodium hydroxide (50%) : Skin corrosion/irritation . Causes severe burns. - MSDS supplier

Serious damage to eyes/eye irritation

Sodium hydroxide (50%) : Eye contact : . corrosive to the eyes - MSDS supplier
Sodium hydroxide (50%) : Serious damage to eyes/eye irritation . corrosive to the eyes - MSDS supplier
Sodium hydroxide (50%) : Serious damage to eyes/eye irritation . Serious damage to eyes - MSDS supplier

Respiratory tracts irritation

Sodium hydroxide (50%) : Respiratory tracts irritation . Fog inhalation is irritant for respiratory tract - MSDS supplier

Mutagenicity

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Sodium hydroxide : . Not mutagenic - MSDS supplier

Carcinogenicity
Sodium hydroxide : mouse . Not carcinogenic - MSDS supplier

Mix-related data:

Acute toxicity
. Not determined for the mixture.

Skin corrosion/irritation
Skin corrosivity . The mix is considered to be corrosive for the skin under the criteria of Regulation 1272/2008/EC.

Serious damage to eyes/eye irritation
Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

Respiratory / skin sensitisation
Skin sensitisation . The mixture is not considered as a skin sensitizer according to 1272/2008/EC Regulation.
Respiratory sensitisation . The mixture is not considered as a respiratory sensitizer according to 1272/2008/EC Regulation.

Mutagenicity
. The classification criteria are not met given the available data.

Carcinogenicity
. The classification criteria are not met given the available data.

Reproductive toxicity
. The classification criteria are not met given the available data.

Specific target organ toxicity - single exposure
. The classification criteria are not met given the available data.

Specific target organ toxicity - repeated exposure
. The classification criteria are not met given the available data.

Aspiration hazard
. The classification criteria are not met given the available data.

Most important symptoms and effects, both acute and delayed :

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Inhalation : Inhaling vapours or aerosols can irritate respiratory tracts, including irritation of the nose and throat, a cough and difficulty breathing.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Not concerned

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SECTION 12: ECOLOGICAL INFORMATION

12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

Substance-related data:

Acute toxicity

Sodium hydroxide : LC 50 - 96 h fishes (Gambusia affinis) 35 - 189 mg/L. - MSDS supplier

Degradability

Sodium hydroxide (50%) : Biodegradability aerobic . Not applicable - MSDS supplier

Sodium hydroxide (50%) : Biodegradability anaerobic . Not applicable - MSDS supplier

Sodium hydroxide (50%) : Half life air 13 seconds. Degradation product = sodium carbonate - MSDS supplier

Sodium hydroxide (50%) : Water. . Instantaneous ionization; Degradation products : salts - MSDS supplier

Sodium hydroxide (50%) : soil . Ionization / neutralization - MSDS supplier

Bioaccumulation

Sodium hydroxide (50%) : . Not applicable - MSDS supplier

Mobility

Sodium hydroxide (50%) : air . Instantaneous degradation - MSDS supplier

Sodium hydroxide (50%) : Water. . Important solubility and mobility - MSDS supplier

Sodium hydroxide (50%) : soil/sediments . Important solubility and mobility; Contamination of ground water in case of rain - MSDS supplier

Mix-related data:

Acute toxicity

fishes . No data available.

daphnia . No data available.

algae . No data available.

Chronic toxicity

. No data available.

Degradability

. The surface agents contained in this mix are in line with the requirements of the Detergent Regulation 648/2004/EC.

Bioaccumulation

. No data available.

Mobility

. No data available.

Conclusion :

The mixture is not considered to be dangerous for the environment according to 1272/2008/EC Regulation.

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

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12.6 Endocrine disrupting properties

Not concerned

12.7. Other adverse effects

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Treatment of the mixture :

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

SECTION 14: TRANSPORT INFORMATION

ROAD TRANSPORT: Rail/Route (RID/ADR)

14.1 UN no : 1824

14.2 UN proper shipping name :
SODIUM HYDROXIDE SOLUTION

14.3 Transport hazard class(es) : 8

14.4 Packing group : II
Hazard identification number : 80
Label : 8



Tunnel code : (E)

14.5 Environmental hazard : No

14.6 Special precautions for user : No information.

Limited Quantity (QL): 1L

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MARITIME TRANSPORT : IMDG

14.1 UN no :1824

14.2 UN proper shipping name : SODIUM HYDROXIDE SOLUTION

14.3 Transport hazard class(es) : 8



14.4 Packing group : II

14.5 Environmental hazard
Marine pollutant : No

14.6 Special precautions for user : No information.
EmS number : F-A, S-B

Limited Quantity (QL): 1L

14.7 Maritime transport in bulk according to IMO instruments : Not concerned

SECTION 15: REGULATORY INFORMATION

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

Regulation (EU) n°528/2012 concerning the making available on the market and use of biocidal products :
Not concerned

Regulations relating to the hazards from major accidents :
SEVESO 3 Directive (2012/18/EC) : Not concerned

Regulations relating to the classification, packaging and labelling of substances and mixtures :
Regulation (EC) 1272/2008 amended.

Waste regulations :
2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC
Decision 2014/955/EC which establishes the list of hazardous waste.

Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals : Not concerned

Protection of workers :

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Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

Regulation (EC) 1005/2009 amended on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:
Not concerned

Regulation (EC) 648/2004 :
In conformity with the regulation in force on detergents: Regulation (EC) N° 648/2004.
Ingredient datasheet for the medical staff is available upon written request.
Contains :
< 5% Polycarboxylates

Comply with national and local legislation.

UN Globally Harmonised System (GHS) on Classification and Labelling of Chemical (GB CLP - SI 2020 No. 1567) and UK REACH (SI 2020 No. 1577)

15.2. Chemical safety assessment

This safety data sheet has been drafted taking into account the information from exposure scenarios for the substances making up the mixture.

SECTION 16: OTHER INFORMATION

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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List of H phrases referred to in section 3 :
H290 : May be corrosive to metals.
H314 : Causes severe skin burns and eye damage.

Sources of key data used to compile the data sheet :
MSDS supplier

Historical :
Version 7.0.1
Cancels and replaces previous version 7.0.