

## Hyline HLU 30

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

Date issued 16.01.2023

1.1. Product identifier

Product name Hyline HLU 30

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

Use of the substance / preparation Alkaline dishwashing liquid with chlorine.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

**Importer** 

Company name Hobart Food Equipment

Postal address Unit 1 / 2 Picken Street

Postcode NSW 2128

City Silverwater

Country Australia

Telephone number 02 9714 0200

Website http://www.hobartfood.com.au

1.4. Emergency telephone number

Emergency telephone Description: National Poison Information Centre: 13 11 26

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008

[CLP / GHS]

Skin Corr. 1A; H314

Eye Dam. 1; H318



Met. Corr. 1; H290

Aquatic Chronic 3; H412

CLP classification, comments

Classified as Hazardous according to the Globally System ag Classification and labelling ag Chemicals (GHS) including Wok, Health and Safety Regulations

Australia.

Classified as Dangerous Goods according to the Australian Code for the

Transport of

Dangerous Goods by Road and Rail. (7th edition)

Substance / mixture hazardous properties

For further information, please refer to section 11.

Additional information on classification

The informations stated in this MSDS, applies for the concentrated product. See Sec. 16, for informations regarding recommended user solutions

#### 2.2. Label elements

#### Hazard pictograms (CLP)



Composition on the label Potassium Hydroxide , Sodium hydroxide , Sodium hydroxide , Sodium hydroxide ,

Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P280 Wear protective gloves / protective clothing / eye protection / face

protection.

P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all

contaminated clothing. Rinse skin with water / shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor / physician.

P273 Avoid release to the environment.

#### 2.3. Other hazards

Hazard description, general Do not mix with acid or acid containing products: toxic chlorine gas may be

formed.

Health effect Corrosive to skin and eyes. May cause permanent damage to the eyes,

especially if the product is not washed away IMMEDIATELY. See section 11 for

additional information on health hazards.

Environmental effects Substantial amounts of the product may lead to a local change in acidity in small

water systems which may have adverse effects on aquatic organisms. This

product does not contain any PBT or vPvB substances.

Other hazards Undiluted, the product may be corrosive to metals.

## **SECTION 3: Composition / information on ingredients**



#### 3.2. Mixtures

Substance	Identification	Classification	Contents
Potassium Hydroxide	CAS No.: 1310-58-3 EC No.: 215-181-3 Index No.: 019-002-00-8 REACH Reg. No.: 01-2119487136-33-xxxx	Met. Corr. 1; H290 Acute tox. 4;H302 Skin Corr 1A;H314	5 -15 %
Disodium metasilicate, pentahydrate	CAS No.: 10213-79-3 EC No.: 229-912-9 REACH Reg. No.: 01-2119449811-37-xxxx	Skin Corr 1B; H314 Eye Dam. 1; H318 Met. Corr. 1; H290 STOT SE3; H335	5 -15 %
Sodium hydroxide	CAS No.: 1310-73-2 EC No.: 215-185-5 REACH Reg. No.: 01-2119457892-27-xxxx	Skin Corr. 1A; H314 Eye Dam. 1; H318 Met. Corr. 1; H290	1 -5 %
Sodium hypochlorite	CAS No.: 7681-52-9 EC No.: 231-668-3 Index No.: 017-011-00-1 REACH Reg. No.: 01-2119488154-34-xxxx	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400; M-factor 10 Aquatic Chronic 1; H410; M-factor 1 EUH 031 STOT SE 3; H335	1 < 2,5 %

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

General	Remove affected person from source of contamination.		
Inhalation	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions. In case of chlorine poisoning: Move injured person to fresh air and after that to hospital.		
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if any discomfort continues.		
Eye contact	Important! Immediately rinse with water for at least 15 minutes. May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.		
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Do not give victim anything to drink if he is unconscious.		
Recommended personal protective equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.		

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

Acute symptoms and effects Strongly corrosive. May cause deep tissue damage. Strongly corrosive. Causes



severe burns and serious eye damage. Immediate first aid is imperative.

Delayed symptoms and effects 
The etching penetrates deeply into the tissue and is first noticed after a while.

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

Other information

In case of unconsciousness, ingestion or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, foam or water spray.

#### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

This product is not flammable. During fire, gases hazardous to health may be

formed. Water used for fire extinguishing, which has been in contact with the

product, may be corrosive.

Hazardous combustion products Toxic gases/vapours/fumes of: Chlorine. Hydrogen chloride (HCI).

#### 5.3. Advice for firefighters

Personal protective equipment

Wear necessary protective equipment. For personal protection, see section 8.

Fire fighting procedures

Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities. Avoid breathing fire vapours.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures

Look out! The product is corrosive. Use protective gloves, goggles and suitable protective clothing. In case of inadequate ventilation use suitable respirator. For personal protection, see section 8.

#### 6.2. Environmental precautions

Environmental precautionary

measures

Avoid discharge into water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

Cleaning method

Dam and absorb spillage with sand, sawdust or other absorbent. Wash contaminated area with water.

#### 6.4. Reference to other sections

Other instructions See section 8 and section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling



Handling

Avoid spilling, skin and eye contact. Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Do not mix with acidic products.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Corrosive liquid. Store in a cool dry well-ventilated area. Store in original

packages as

approved by manufacture. Store away from oxidising agents and acid. Protect

freezing. Keep container closed when not in use, securely sealed and protected

against

physical damage. Inspect regularly for deficiencies such as damage or leaks.

Provide a

catch-tank in a bunded area. Ensure that storage conditions comply with

applicable

local and national regulations.

Fo information on the design of the storerum, reference should be made to

Australian

Standard AS 3780. The Storrage and handling of corrosive substances.

Conditions to avoid Keep away from acids. Keep away from ammonium salts. Keep away from

aluminium,

tin, zinc, and galvanised iron. Prevent long contact with glass surfaces

#### 7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: Exposure controls / personal protection**

#### 8.1. Control parameters

Substance	Identification	Value	TWA Year
Potassium Hydroxide	CAS No.: 1310-58-3	TWA (8h): 2 mg/m3; L	TWA Year: 2007
Sodium hydroxide	CAS No.: 1310-73-2	OEL short term value	TWA Year: 2011
		Value: 2 mg/m3	
Chlorine	CAS No.: 7782-50-5	TWA (8h): 0,75 mg/m3	TWA Year: 2007
		TWA (8h): 0,25 ppm	

#### **DNEL / PNEC**

Substance Potassium Hydroxide

**DNEL** Group: Worker

Route of exposure: Long term (repeated) - Inhalation - Local effect

Value: 1 mg/m3

**Group:** Consumer

Route of exposure: Long term (repeated) - Inhalation - Local effect

Value: 1 mg/m3

Substance Disodium metasilicate, pentahydrate

**DNEL** Group: Consumer Route of exposure: Long term (repeated) - Inhalation - Systemic effect

Value: 1,55 mg/m3



Comments: Supplier MSDS

Group: Consumer

Route of exposure: Long term (repeated) - Oral - Systemic effect

Value: 0,74 mg/kg bw/d Comments: Supplier MSDS

Group: Worker

Route of exposure: Long term (repeated) - Dermal - Systemic effect

Value: 1,49 mg/kg bw/d Comments: Supplier MSDS

Group: Worker

Route of exposure: Long term (repeated) - Inhalation - Systemic effect

Value: 6,22 mg/m3

Comments: Supplier MSDS

Group: Consumer

Route of exposure: Long term (repeated) - Dermal - Systemic effect

Value: 0,74 mg/kg bw/d Comments: Supplier MSDS

PNEC Route of exposure: Sewage treatment plant STP

Value: 1000 mg/l

Comments: Supplier MSDS

Route of exposure: Water

Value: 7,5 mg/l

Comments: Fresh water. Supplier MSDS

Route of exposure: Water

Value: 1 mg/l

Comments: Marine water, Supplier MSDS

Substance Sodium hydroxide

DNEL Group: Professional

Route of exposure: Long term (repeated) - Inhalation - Local effect

Value: 1 mg/m3

Group: Consumer

Route of exposure: Short term (acute) - Dermal - Local effect

Value: 2%

Group: Consumer

Route of exposure: Long term (repeated) - Inhalation - Local effect

Value: 1 mg/m3

**Group:** Professional

Route of exposure: Short term (acute) - Dermal - Local effect

Value: 2%

Substance Sodium hypochlorite

DNEL Group: Professional

Route of exposure: Acute inhalation (systemic)

Value: 3,1 mg/m<sup>3</sup>

**Group:** Professional

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Route of exposure: Acute inhalation (local)

Value: 3,1 mg/m<sup>3</sup>

**Group:** Professional

Route of exposure: Long-term inhalation (systemic)

Value: 1,55 mg/m<sup>3</sup>

Group: Professional

Route of exposure: Long-term inhalation (local)

Value: 1,55 mg/m<sup>3</sup>

**Group:** Professional

Route of exposure: Long-term dermal (local)

Comments: 0,5 %

Group: Consumer

Route of exposure: Long-term inhalation (local)

Value: 1,55 mg/m<sup>3</sup>

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 1,55 mg/m<sup>3</sup>

Group: Consumer

Route of exposure: Acute inhalation (local)

Value: 3,1 mg/m<sup>3</sup>

**Group:** Consumer

Route of exposure: Long-term oral (systemic)

Value: 0,26 mg/kg bw/day

Route of exposure: Freshwater

**Value:** 0,21 µg/l

Route of exposure: Saltwater

Value: 0,042 μg/l

Route of exposure: Sewage treatment plant STP

Value: 0,03 mg/l

Value: 0,26 µg/l

Comments: intermittent release

#### 8.2. Exposure controls

#### Safety signs



**PNEC** 



## Precautionary measures to prevent exposure

Appropriate engineering controls

This substance is hazardous and should be uses with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations og vapour/mist below the



exposure standards, suitable respiratory protection must be worn.

#### Eye / face protection

Suitable eye protection

Wear tight-fitting goggles or face shield.

Eye protection, comments

Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS

1337 -

Eye Protectors for Industrial Applications.

#### **Hand protection**

Suitable gloves type

Wear gloves of impervious materials such as rubber or plastic. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves

should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves -

Selection, use and maintenance.

#### Skin protection

Additional skin protection measures

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities

are handled.

#### **Respiratory protection**

Respiratory protection necessary at

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716

Respiratory Protective Devices, in arder to make any necessary changes for

individual circumstances.

#### Thermal hazards

Thermal hazards

See section 5.

#### Appropriate environmental exposure control

Environmental exposure controls

See section 6.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state

Fluid.

Colour

Yellowish.



Odour Chlorine.

Odour limit Comments: Not relevant.

pH Status: In delivery state

Value: > 13

Status: In aqueous solution

Value: ~ 11,0

Concentration: 0,2 %

Status: In aqueous solution

Value: ~ 12,0 Concentration: 0,6 %

Comments: Not relevant.

Melting point / melting range Comments: Not relevant.

Boiling point / boiling range Comments: Not relevant.

Evaporation rate Comments: Not relevant.

Explosion limit Comments: Not relevant.

Vapour density Comments: Not relevant.

Bulk density Value: ~ 1,25 kg/l

Solubility Comments: Completely soluble in water.

Partition coefficient: n-octanol/

Spontaneous combustability

watei

Flash point

Ol/ Comments: Not relevant.

Comments: Not relevant.

Decomposition temperature Comments: Not relevant.

Viscosity Value: < 30 mPas.

Explosive properties Not explosive.

Oxidising properties Does not meet the criteria for oxidising.

#### 9.2. Other information

#### Other physical and chemical properties

Comments No data recorded.

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Generates toxic gas when in contact with acid. Reacts violently with strong acids.



Reacts strongly with water. Do not add water directly to the product. It may cause a violent reaction. Risk of bumping (splashes).

#### 10.4. Conditions to avoid

Conditions to avoid Extremes of temperatures. Avoid contact with acids.

#### 10.5. Incompatible materials

Materials to avoid Strong acids. Acids, oxidising. Alkali-sensitive metals such as aluminium, tin, lead

and zinc and alloys with these metals.

#### 10.6. Hazardous decomposition products

Hazardous decomposition

products

Chlorine gas and hydrogen chloride may be formed in a fire or by heating. In

case of fire, toxic gases (CO, CO2, NOx) may be formed.

#### Other information

Other information

Acute toxicity

Undiluted, the product may be corrosive to metals. When used in the recommended dosages, contact time and temperature, the product is compatible with acid-proof stainless steels.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Substance Potassium Hydroxide

Acute toxicity Type of toxicity: Acute

Effect tested: LD50 Route of exposure: Oral Value: 333 mg/kg Animal test species: rat

Substance Disodium metasilicate, pentahydrate

Biodalan metabilicate, pentanyaran

Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: > 1152-1349 mg/kg Animal test species: Rat Comments: Supplier MSDS

Type of toxicity: Acute Effect tested: LC50

Route of exposure: Inhalation.

Value: > 2,06 g/m3
Animal test species: rat
Comments: Supplier MSDS

Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 5000 mg/kg Animal test species: rat



**Comments:** Supplier MSDS

Substance Sodium hypochlorite

Acute toxicity

Type of toxicity: Acute

Effect tested: LD50

Route of exposure: Oral

Method: OECD Guideline 401 Value: > 1100 mg/kg

Animal test species: Rat Comments: 15% w/w

Type of toxicity: Acute Effect tested: LC50

Route of exposure: Inhalation.

Method: OECD 403 Duration: 1 hour(s) Value: > 10,5 mg/kg Animal test species: Rat Comments: 15% w/w

Type of toxicity: Acute Effect tested: LD50

Route of exposure: Dermal Method: OECD Guideline 402 Value: > 20000 mg/kg

Animal test species: Rabbit Comments: 15% w/w

Other toxicological data

Toxicological tests on the product has not been performed.

#### Other information regarding health hazards

Assessment of acute toxicity, No evidence for acute toxicity.

classification

Inhalation Aerosols may be corrosive.

Skin contact Strongly corrosive. May cause deep tissue damage.

Eye contact Strongly corrosive. Causes severe burns. Immediate first aid is imperative. May

cause permanent damage to the eyes, especially if the product is not washed

away IMMEDIATELY.

Ingestion May cause burns in mucous membranes, throat, oesophagus and stomach.

Sensitisation No evidence for respiratory nor skin sensitization.

Mutagenicity No evidence for germ cell mutagenicity.

Carcinogenicity, other information No evidence for carcinogenicity.

Reproductive toxicity No evidence for reproductive toxicity.

Assessment of specific target

organ SE, classification

No evidence for STOT-single exposure.

Assessment of specific target organ toxicity RE, classification

No evidence for STOT-repeated exposure.

Assessment of aspiration hazard,

classification

No evidence for aspiration hazard.



## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Substance Potassium Hydroxide

Acute aquatic, fish Value: 80 mg/l

Test duration: 96h

Species: GAMBUSIA AFFINIS

Method: LC50

Substance Disodium metasilicate, pentahydrate

Acute aquatic, fish Value: 210 mg/l

Test duration: 96h

Species: brachydanio rerio

Method: LC 50

Test reference: Supplier MSDS

Substance Sodium hydroxide

Acute aquatic, fish Value: 125 mg/l

Species: Gambusia Affinis

Method: LC50

Substance Sodium hypochlorite

Acute aquatic, fish Value: 0,01-0,1 mg/l

Test duration: 96h Species: P.promelas Method: LC50

Substance Sodium hypochlorite

Acute aquatic, algae Value: 0,0021 mg/l

Method: NOEC

Substance Disodium metasilicate, pentahydrate

Acute aquatic, Daphnia Value: 1700 mg/l

Test duration: 48h
Species: Daphnia magna

Method: EC50

Test reference: Supplier MSDS

Substance Sodium hydroxide

Acute aquatic, Daphnia Value: 40,4 mg/l

Test duration: 48h Species: ceriodaphnia sp.

Method: EC50

Substance Sodium hypochlorite

Acute aquatic, Daphnia Value: 0,01-0,1 mg/l

Test duration: 48h Species: Daphnia Magna

Method: EC50

Ecotoxicity Contains a substance (Aquatic Acute 1; H400 or Aquatic Chronic 1; H410) that

falls within the scope of the multiplication factor rule.

Large amounts of the product may affect the acidity (pH-factor) in water with



possible risk of harmful effects to aquatic organisms.

Aquatic, comments No data available for the product.

#### 12.2. Persistence and degradability

Persistence and degradability, comments

The product is easily biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product is water soluble and may spread in water systems.

#### 12.5. Results of PBT and vPvB assessment

PBT assessment results

This substance is not classified as PBT or vPvB.

#### 12.6. Other adverse effects

Environmental details, summation Product is harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Specify the appropriate methods of disposal

Do not empty into drains. Dispose of this material, waste, residues and packaging in accordance with local authority requirements.

## **SECTION 14: Transport information**

Dangerous goods Yes

#### 14.1. UN number

ADR / RID / ADN 1719

IMDG 1719

ICAO / IATA 1719

Comments This material is classified as Dangerous Goods Class 8 Corrosive Substances

according to the Australien Code for Transport af Dangerous Goods by Road

andRail (7th edition)

Class 8 Dangerous Goods are incompatible in placard load with any of the

following:

-Class 1, Explosives

-Division 4.3, Dangerous When Wet Substanses

-Division 5.1, Oxidising substances

-Division 5.2, Organic Peroxides

-Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are



cyanides

and the Class 8 dangerous goods are acids

-Class 7, Radioactive Substances

and are incompatible with food and food packaging in any quantity.

Strong acids must not be loaded in the same freight container or on the same

vehicle

with strong alkalis. Packing Group I and II acids and alkalis should be considered strong

#### 14.2. UN proper shipping name

Proper shipping name english
ADR / RID / ADN

ADR / RID / ADN

CAUSTIC ALKALI LIQUID, N.O.S.

Technical name / danger releasing substance ADR / RID / ADN

IMDG

CAUSTIC ALKALI LIQUID, N.O.S.

Potassium hydroxide, Sodium hypochlorite

CAUSTIC ALKALI LIQUID, N.O.S.

Technical name / danger releasing substance IMDG

CAUSTIC ALKALI LIQUID, N.O.S.

Potassium hydroxide, Sodium hypochlorite

CAUSTIC ALKALI LIQUID, N.O.S.

Technical name / danger releasing

substance ICAO

Potassium hydroxide, Sodium hypochlorite

#### 14.3. Transport hazard class(es)

ADR / RID / ADN 8

Classification code ADR / RID / ADN

IMDG 8

ICAO / IATA 8

#### 14.4. Packing group

ADR / RID / ADN II
IMDG II
ICAO / IATA II

Comments HAZCHEM Code: 2R

#### 14.5. Environmental hazards

IMDG Marine pollutant No

#### 14.6. Special precautions for user

Special safety precautions for user Not relevant.

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

Product name CAUSTIC ALKALI LIQUID, N.O.S.



#### Additional information

ADR / RID / ADN hazard label 8
IMDG Hazard label 8
ICAO / IATA Hazard label 8

#### ADR / RID - Other information

Tunnel restriction code E

Transport category 2

Hazard No. 80

RID other applicable information 80

#### IMDG / ICAO / IATA Other information

EmS F-A, S-B

## **SECTION 15: Regulatory information**

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

Other label information Regulatory information

Classified as Hazardous according to the Globally Harmonised System of

Classification

and labelling of Chemicals (GHS) including Work, Health and Safety regulations,

Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform

Scheduling

of Medicines and Poisons (SUSMP).

Poisons Schedule

S6

#### 15.2. Chemical safety assessment

Chemical safety assessment

No

performed

#### **SECTION 16: Other information**

List of relevant H-phrases (Section 2 and 3)

EUH 031 Contact with acids liberates toxic gas.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes Serious eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

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.



Classification according to Regulation (EC) No 1272/2008

[CLP / GHS]

Skin Corr. 1A; H314 Eye Dam. 1; H318 Met. Corr. 1; H290 Aguatic Chronic 3; H412

Training advice

No particular training or education is required but the user must be familiar with this SDS. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

Additional information

READY-TO-USE MIXTURE: 0,2-<0,4% Does not require a hazard warning label. READY-TO-USE MIXTURE: ≥0,4% H314 Causes severe skin burns and eye damage.

Key literature references and sources for data

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens,

restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH)

Global ly Harmonised System of classification and labelling of chemicals.

Information added, deleted or

revised

Nyt HMS-datablad

User notes

Contact Person/Point

The company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside the Company's control. The end user is obliged to conform to relevant government regulations and/or patent laws applicable in their respective States of Countries.

Version 2

Prepared by ALM

Comments END OF SDS