

Hyline HLU 32

Page 1 of 12

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

Date issued 01.01.2025

1.1. Product identifier

Product name Hyline HLU 32

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

Product group Alkaline dishwashing liquid for dishwashers.

Uses advised against
No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Distributor

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]

Eye Dam. 1; H318

Skin Corr. 1A; H314



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 Sodium hydroxide , Caustic potash

Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

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.

2.3. Other hazards

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.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Sodium hydroxide	CAS No.: 1310-73-2	Skin Corr. 1A; H314	30 - 60 %
	EC No.: 215-185-5	Eye Dam. 1; H318	
	REACH Reg. No.:	Met. Corr. 1; H290	
	01-2119457892-27-xxxx		
Potassium Hydroxide	CAS No.: 1310-58-3	Met. Corr. 1; H290	1 - 5 %
	EC No.: 215-181-3	Acute tox. 4;H302	
	Index No.: 019-002-00-8	Skin Corr 1A;H314	
	REACH Reg. No.:		
	01-2119487136-33-xxxx		



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.

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.

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.

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 Loc

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

from

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
Sodium hydroxide	CAS No.: 1310-73-2	OEL short term value Value: 2 mg/m3	TWA Year: 2011
Potassium Hydroxide	CAS No.: 1310-58-3	TWA (8h): 2 mg/m3; L	TWA Year: 2007

DNEL / PNEC

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 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

8.2. Exposure controls

Safety signs





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.

Breakthrough time Value:

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

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 Colourless to pale yellow.



Odour No data recorded.

Odour limit Comments: No data recorded.

pH Status: In delivery state

Value: > 13,0

Status: In aqueous solution

Value: ~ 12,5 Concentration: 1 %

Status: In aqueous solution

Value: ~ 12,5 Concentration: 0,5 %

Melting point / melting range Comments: Not relevant.

Boiling point / boiling range Comments: Not relevant.

Flash point Comments: Not relevant.

Evaporation rate Comments: Not relevant.

Flammability (solid, gas) Not relevant.

Explosion limit Comments: Not relevant.

Vapour pressure Comments: Not relevant.

Vapour density Comments: Not relevant.

Bulk density Value: ~ 1,40 kg/l

Solubility Medium: Water

Comments: Completely soluble in water.

Comments: Not relevant.

Partition coefficient: n-octanol/

water

Spontaneous combustability Comments: Not relevant.

Decomposition temperature Comments: Not relevant.

Viscosity Value: < 100 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

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

Heating. 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

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

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

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,

No evidence for aspiration hazard.

classification

Symptoms of exposure

Symptoms of overexposure

No specific symptoms noted.

SECTION 12: Ecological information

12.1. Toxicity

Substance Sodium hydroxide

Acute aquatic, fish Value: 125 mg/l

Species: Gambusia Affinis

Method: LC50

Substance Potassium Hydroxide

Acute aquatic, fish Value: 80 mg/l

Test duration: 96h

Species: GAMBUSIA AFFINIS

Method: LC50

Substance Sodium hydroxide

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

Test duration: 48h **Species:** ceriodaphnia sp.

Method: EC50

Ecotoxicity 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

Chemical oxygen demand (COD) Value: < 50 mg O/g

Persistence and degradability,

comments

The product is 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

12.6. Other adverse effects

Environmental details, summation For this product no classification is required for environmental hazards.



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

14.1. UN number

 ADR / RID / ADN
 1719

 IMDG
 1719

 ICAO / IATA
 1719

14.2. UN proper shipping name

Proper shipping name english

ADR / RID / ADN

CAUSTIC ALKALI LIQUID, N.O.S.

ADR / RID / ADN

CAUSTIC ALKALI LIQUID, N.O.S.

Technical name / danger releasing

substance ADR / RID / ADN

Sodium hydroxide, Potassium hydroxide

IMDG

CAUSTIC ALKALI LIQUID, N.O.S.

Technical name / danger releasing substance IMDG

ICAO / IATA

Sodium hydroxide, Potassium hydroxide

Technical name / danger releasing

substance ICAO

CAUSTIC ALKALI LIQUID, N.O.S.

Sodium hydroxide, Potassium hydroxide

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.



14.3. 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

Hyline HLU 32 - Version 2.3 Safety Data Sheet

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)

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Classification according to Regulation (EC) No 1272/2008

[CLP / GHS]

Eye Dam. 1; H318 Skin Corr. 1A; H314

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: 0,5 - 3 %: 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)

Globally Harmonised System of classification and labelling of chemicals.

Information added, deleted or

revised

Revised-new safety data sheet.

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 2.3

Prepared by ALM

Comments END OF SDS