The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

# 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 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

**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] | Eye Dam. 1; H318<br>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.<br>Classified as Dangerous Goods according to the Australian Code for the Transport of<br>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.<br>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.<br>P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>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.<br>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<br>EC No.: 215-185-5<br>REACH Reg. No.:<br>01-2119457892-27-xxxx | Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>Met. Corr. 1; H290 | 30 - 60 % |
| Potassium Hydroxide | CAS No.: 1310-58-3<br>EC No.: 215-181-3<br>Index No.: 019-002-00-8<br>REACH Reg. No.: | Met. Corr. 1; H290<br>Acute tox. 4;H302<br>Skin Corr 1A;H314 | 1 - 5 % |

| | |
|---|---|
| | 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.<br>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. |

### 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<br>approved by manufacture. Store away from oxidising agents and acid. Protect from<br>freezing. Keep container closed when not in use, securely sealed and protected against<br>physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a<br>catch-tank in a bunded area. Ensure that storage conditions comply with applicable<br>local and national regulations.<br>Fo information on the design of the storerum, reference should be made to Australian<br>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,<br>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**<br>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<br>**Route of exposure:** Long term (repeated) - Inhalation - Local effect<br>**Value:** 1 mg/m3<br><br>**Group:** Consumer<br>**Route of exposure:** Short term (acute) - Dermal - Local effect<br>**Value:** 2%<br><br>**Group:** Consumer<br>**Route of exposure:** Long term (repeated) - Inhalation - Local effect<br>**Value:** 1 mg/m3<br><br>**Group:** Professional<br>**Route of exposure:** Short term (acute) - Dermal - Local effect<br>**Value:** 2% |
| Substance | Potassium Hydroxide |
| DNEL | **Group:** Worker<br>**Route of exposure:** Long term (repeated) - Inhalation - Local effect<br>**Value:** 1 mg/m3<br><br>**Group:** Consumer<br>**Route of exposure:** Long term (repeated) - Inhalation - Local effect<br>**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.<br>Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 -<br>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<br>should conform to relevant regulations.<br>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 are<br>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,<br>Respiratory Protective Devices, in arder to make any necessary changes for individual<br>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<br>Value: > 13,0<br><br>Status: In aqueous solution<br>Value: ~ 12,5<br>Concentration: 1 %<br><br>Status: In aqueous solution<br>Value: ~ 12,5<br>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<br>Comments: Completely soluble in water. |
| Partition coefficient: n-octanol/ water | Comments: Not relevant. |
| 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<br>**Effect tested:** LD50<br>**Route of exposure:** Oral<br>**Value:** 333 mg/kg<br>**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, classification | No evidence for acute toxicity. |
| 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. |

### 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<br>**Species:** Gambusia Affinis<br>**Method:** LC50 |
| Substance | Potassium Hydroxide |
| Acute aquatic, fish | **Value:** 80 mg/l<br>**Test duration:** 96h<br>**Species:** GAMBUSIA AFFINIS<br>**Method:** LC50 |
| Substance | Sodium hydroxide |
| Acute aquatic, Daphnia | **Value:** 40,4 mg/l<br>**Test duration:** 48h<br>**Species:** ceriodaphnia sp.<br>**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 | Sodium hydroxide, Potassium hydroxide |
| ICAO / IATA | CAUSTIC ALKALI LIQUID, N.O.S. |
| Technical name / danger releasing substance ICAO | 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<br>(7th edition)<br>Class 8 Dangerous Goods are incompatible in placard load with any of the following:<br>-Class 1, Explosives<br>-Division 4.3, Dangerous When Wet Substanses<br>-Division 5.1, Oxidising substances<br>-Division 5.2, Organic Peroxides<br>-Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides<br>and the Class 8 dangerous goods are acids<br>-Class 7, Radioactive Substances<br>and are incompatible with food and food packaging in any quantity.<br>Strong acids must not be loaded in the same freight container or on the same vehicle<br>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 |
| Classificaton code ADR / RID / ADN | C5 |
| 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<br>Classified as Hazardous according to the Globally Harmonised System of |

| | |
|---|---|
| | Classification<br>and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.<br>Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling<br>of Medicines and Poisons (SUSMP).<br>Poisons Schedule<br>S6 |

### 15.2. Chemical safety assessment

| | |
|---|---|
| Chemical safety assessment performed | No |

## SECTION 16: Other information

| | |
|---|---|
| List of relevant H-phrases (Section 2 and 3) | H290 May be corrosive to metals.<br>H302 Harmful if swallowed.<br>H314 Causes severe skin burns and eye damage.<br>H318 Causes serious eye damage. |
| Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] | Eye Dam. 1; H318<br>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<br>Standard for the Uniform Scheduling of Medicines and Poisons.<br>Australian Code for the Transport of Dangerous Goods by Road & Rail.<br>Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens,<br>restricted carcinogens and restricted hazardous chemicals.<br>Workplace exposure standards for airborne contaminants, Safe work Australia.<br>American Conference of Industrial Hygienists (ACGIH)<br>Global ly Harmonised System of classification and labelling of chemicals. |
| Information added, deleted or revised | New safety data sheet. |
| User notes | Contact Person/Point<br>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 |