



Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLU-32

Print date: 22.05.2013

Product code: HLU-32

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

Product identifier

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

Use of the substance/mixture

Cleaning agent, alkaline.

Uses advised against

none/none

Details of the supplier of the safety data sheet

Company name: HOBART UK
 Street: Southgate Way
 Place: Peterborough
 Telephone: 0844 888 7777
 e-mail: part.sales@hobartuk.com
 Internet: www.hobartuk.com
 Responsible Department: Spare part sales e-mail; julian.fisher@hobartuk.com
 Telephone; 01733 392287

Emergency telephone: 0845 4647

SECTION 2: Hazards identification

Classification of the substance or mixture

Indications of danger : Corrosive
 R-phrases:
 Causes severe burns.

Label elements

Danger symbols: C - Corrosive



C - Corrosive

Hazardous components which must be listed on the label

caustic soda, sodium hydroxide
 caustic potash, potassium hydroxide

R phrases

35 Causes severe burns.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

SECTION 3: Composition/information on ingredients

Mixtures

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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
215-185-5	caustic soda, sodium hydroxide	30 - 60 %
1310-73-2	C R35	
011-002-00-6	Skin Corr. 1A; H314	
215-181-3	caustic potash, potassium hydroxide	1 - 5 %
1310-58-3	Xn, C R22-35	
	Acute Tox. 4, Skin Corr. 1A; H302 H314	

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

Further Information

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

Labelling for contents according to regulation (EC) No 648/2004, annex 7:

< 5 % phosphonates

SECTION 4: First aid measures**Description of first aid measures****General information**

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

After inhalation

Provide fresh air. Get immediate medical advice/attention.

After contact with skin

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Risk of serious damage to eyes.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Let water be swallowed in little sips (dilution effect). Caution if victim vomits: Risk of aspiration! Immediately get medical attention.

Most important symptoms and effects, both acute and delayed

Danger of severe chemical burns that lead to perforation of oesophagus and stomach.

Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**dry extinguishing powder. Carbon dioxide (CO₂). Water spray.**Extinguishing media which must not be used for safety reasons**

High power water jet.

Special hazards arising from the substance or mixtureCan be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂). Phosphorus oxides.



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Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical resistant suit.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Extinguishing materials should be selected according to the surrounding area. Use water spray/stream to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. (Refer to chapter 8.)
High slip hazard because of leaking or spilled product.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the assimilated material according to the section on waste disposal.
Clear contaminated area thoroughly.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (Refer to chapter 8.)
Do not mix with acids. Do not breathe vapour or spray. Avoid contact with skin, eye and clothing.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

Shelf Life (months): 36

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Unsuitable materials for Container: Aluminium. Zinc.
Keep only in the original container in a cool, well-ventilated place away from acids. Keep container tightly closed. Handle and open container with care.
Make sure spills can be contained (e.g. sump pallets or kerbed areas).
Suitable material for floor covering: Leachate-proof.

Advice on storage compatibility

Do not store together with: Peroxides. Radioactive substances. Infectious substances. Oxidizing solids. Oxidizing liquids. Food and fodder.

Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. heat. moisture. frost.

SECTION 8: Exposure controls/personal protection

Control parameters

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Exposure limits (EH40)

CAS No	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	-	-	TWA (8 h)	WEL
		-	2	-	STEL (15 min)	WEL
1310-73-2	Sodium hydroxide	-	-	-	TWA (8 h)	WEL
		-	2	-	STEL (15 min)	WEL

Exposure controls



Occupational exposure controls

Provide adequate ventilation.

Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose off safely.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection required in case of:

exceeding critical value

Generation/formation of aerosols

Generation/formation of mist

Suitable respiratory protective equipment:

Combination filter device (DIN EN 141).. Type : B- P2/P3

Hand protection

Pull-over gloves of rubber. DIN EN 374

Suitable material:

(penetration time (maximum wearing period): ≥ 8 h):

Butyl rubber. (0,5 mm)

FKM (fluororubber). (0,4 mm)

CR (polychloroprenes, Chloroprene rubber). (0,5 mm)

Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well-aired place.

Eye protection

Suitable eye protection: Tightly sealed safety glasses., Eye-shade. DIN EN 166

Skin protection

Protective clothing: Protective apron.

Standard: Protective clothing: EN 136, EN 137, EN 140, EN 143, EN 149, EN 405, EN 12941, EN 12942, EN 14387

Environmental exposure controls

The product needs to apply neutralizing agents before draining to wastewater treatment plants.

This material and its container must be disposed of in a safe way.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid
 Colour: clear, colourless



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Odour: characteristic

Test method

pH-Value: > 13; 12,5 (1 %in aqueous solution)

Changes in the physical state

Boiling point: not determined

Flash point: not determined

Explosive properties

none/none

Oxidizing properties

none/none

Density: 1,40 g/cm³**Solubility in other solvents**

miscible.

Viscosity / dynamic: < 100 mPa·s

SECTION 10: Stability and reactivity**Reactivity**

No information available.

Chemical stability

Stable under normal storage and handling conditions.

Possibility of hazardous reactions

In a watery solution and in contact with metals, product develops hydrogen . (Explosion hazard.)

Conditions to avoid

heat. frost. UV-radiation/sunlight.

Incompatible materials

Materials to avoid: Aluminium. Zinc. Strong acid

Hazardous decomposition productsCan be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂). Phosphorus oxides.**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50	(273) mg/kg	Rat.	

Irritation and corrosivity

Irritant effect on the eye: highly caustic.

Irritant effect on the skin: highly caustic.

Irritant effect on the respiratory tract: irritant.

Sensitising effects

Product is not: sensitizing.

The statement is derived form the properties of the components.

Severe effects after repeated or prolonged exposure

No information available.

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Carcinogenic/mutagenic/toxic effects for reproduction

No experimental indications of mutagenicity in-vitro exist.
The statement is derived from the properties of the components.

SECTION 12: Ecological information**Toxicity**

CAS No	Chemical name	Method	Dose	h	Species	Source
1310-73-2	caustic soda, sodium hydroxide					
	Acute fish toxicity	LC50	99 mg/l	96	Lepomis macrochirus	
	Acute crustacea toxicity	EC50	40 mg/l	48	daphnia magna	

Persistence and degradability

No information available.

Bioaccumulative potential

No indication of bio-accumulation potential.
The statement is derived from the properties of the components.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1310-73-2	caustic soda, sodium hydroxide	-3,88

Mobility in soil

No information available.

Results of PBT and vPvB assessment

No information available.

SECTION 13: Disposal considerations**Waste treatment methods****Advice on disposal**

The product needs to apply neutralizing agents before draining to wastewater treatment plants. Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal.

Waste disposal number of waste from residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Cleaned containers may be recycled.

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SECTION 14: Transport information

Land transport (ADR/RID)

UN number: UN1719
UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (Contains: caustic soda, sodium hydroxide, potassiumhydroxide)
Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Classification code: C5
Special Provisions: 274
Limited quantity: 1 L
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Other applicable information (land transport)

Excepted quantity: E2

Inland waterways transport

UN number: UN1719
UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (Contains: caustic soda, sodium hydroxide, potassiumhydroxide)
Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Classification code: C5
Special Provisions: 274
Limited quantity: 1 L

Other applicable information (inland waterways transport)

Excepted quantity: E2

Marine transport

UN number: UN1719
UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (contains: Sodium Hydroxide, Potassiumhydroxide)
Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Special Provisions: 274



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Limited quantity: 1 L
EmS: F-A, S-B

Other applicable information (marine transport)

Excepted quantity: E2

Air transport

UN/ID number: UN1719
UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (contains: Sodium Hydroxide, Potassiumhydroxide)
Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Special Provisions: A3 A803
Limited quantity Passenger: 0.5 L
IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

Other applicable information (air transport)

Excepted quantity: E2
Passenger-LQ: Y840

SECTION 15: Regulatory information

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

National regulatory information

Employment restrictions: Observe employment restrictions for young people.
Water contaminating class (D): 1 - slightly water contaminating

Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

Full text of R-phrases referred to under sections 2 and 3

22 Harmful if swallowed.

35 Causes severe burns.

Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)