



## Safety Data Sheet

HOBART GmbH

according to Regulation (EC) No 1907/2006

### HYLINE HLU-30

Revision date: 04.10.2018

Product code:

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

### 1.1. Product identifier

HYLINE HLU-30

#### Further trade names

Article no. (user): 72204, 72209, 72214

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

#### Use of the substance/mixture

Professional: Cleaning agent, alkaline.

#### Uses advised against

none

### 1.3. Details of the supplier of the safety data sheet

Company name:	HOBART GmbH	
Street:	Robert-Bosch-Strasse 17	
Place:	D-77656 Offenburg	
Telephone:	+49 (0) 781.600-0	Telefax: +49 (0) 781.600-23 19
e-mail:	info@hobart.de	
Internet:	www.hobart.de	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Raesfeldstr. 22 D-48149 Münster	e-mail: info@tge-consult.de Tel.: +49(0)251/394868-69 www.tge-consult.de

### 1.4. Emergency telephone number:

Poison Center Berlin: +49 (0) 30-19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

caustic potash, potassium hydroxide

disodium metasilicate-pentahydrate

Sodium hydroxide; caustic soda

Sodium Hypochlorite

Signal word: Danger

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### Pictograms:



### Hazard statements

- H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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/doctor.  
P501 Dispose of contents/container to local/regional/national/international regulations.

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Contains > 1% active chlorine. (1 - 5 %)

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
1310-58-3	caustic potash, potassium hydroxide			5 - 15 %
	215-181-3	019-002-00-8	01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314			
10213-79-3	disodium metasilicate-pentahydrate			5 - 15 %
	229-912-9	014-010-00-8	01-2119449811-37	
	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H290 H314 H318 H335			
1310-73-2	Sodium hydroxide; caustic soda			1 - 5 %
	215-185-5	011-002-00-6	01-2119457892-27	
	Met. Corr. 1, Skin Corr. 1A; H290 H314			
7681-52-9	Sodium Hypochlorite			1 -< 2,5 %
	231-668-3	017-011-00-1	01-2119488154-34	
	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1; H290 H314 H318 H335 H400 H410 EUH031			
				%

Full text of H and EUH statements: see section 16.

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**Labelling for contents according to Regulation (EC) No 648/2004**

5 % - < 15 % phosphates, < 5 % phosphonates, < 5 % polycarboxylates, < 5 % chlorine-based bleaching agents.

**Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician. In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks).

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician.

**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.

**After ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

@1102.B11011

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

First Aid, decontamination, treatment of symptoms.

In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks).

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Sand. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

**Unsuitable extinguishing media**

High power water jet

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

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Phosphorus oxides. Chlorine (Cl<sub>2</sub>) Hydrogen chloride (HCl)

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures**

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

Avoid contact with skin, eyes and clothes.  
Wear personal protection equipment. (See section 8. )  
High slip hazard because of leaking or spilled product.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil.

**6.3. 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 recovered material as prescribed in the section on waste disposal.  
Clear contaminated areas thoroughly.

**6.4. Reference to other sections**

Safe handling: see section 7  
Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Wear suitable protective clothing. ( See section 8. )  
Conditions to avoid: aerosol or mist formation  
Avoid contact with skin, eyes and clothes.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Further information on handling**

Advices on general occupational hygiene: See section 8.  
Shelf Life (months): 12

**7.2. 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 floor material: Leachate-proof.  
Recommended storage temperature: -10 - 20 °C

**Advice on storage compatibility**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Radioactive substances. Infectious substances.

**Further information on storage conditions**

Protect against: Light. UV-radiation/sunlight. heat. moisture. frost.  
storage temperature: 2 - 35°C

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

See section 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
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7782-50-5	Chlorine	-	-	TWA (8 h)	WEL
		0.5	1.5	STEL (15 min)	WEL
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

### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1310-58-3	caustic potash, potassium hydroxide			
Worker DNEL, long-term		inhalation	local	1 mg/m³
Consumer DNEL, long-term		inhalation	local	1 mg/m³
10213-79-3	disodium metasilicate-pentahydrate			
Worker DNEL, long-term		inhalation	systemic	6,22 mg/m³
Worker DNEL, long-term		dermal	systemic	1,49 mg/kg bw/day
1310-73-2	Sodium hydroxide; caustic soda			
Worker DNEL, long-term		inhalation	local	1 mg/m³
Consumer DNEL, long-term		inhalation	local	1 mg/m³
7681-52-9	Sodium Hypochlorite			
Worker DNEL, long-term		inhalation	systemic	1,55 mg/m³
Worker DNEL, acute		inhalation	systemic	3,1 mg/m³
Worker DNEL, acute		inhalation	local	3,1 mg/m³
Worker DNEL, long-term		inhalation	local	1,55 mg/m³
Consumer DNEL, long-term		oral	systemic	0,26 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,55 mg/m³
Consumer DNEL, long-term		inhalation	local	1,55 mg/m³

### PNEC values

CAS No	Substance	Value
	Environmental compartment	
10213-79-3	disodium metasilicate-pentahydrate	
Freshwater		7,5 mg/l
Freshwater (intermittent releases)		7,5 mg/l
Marine water		1 mg/l
7681-52-9	Sodium Hypochlorite	
Freshwater		0,00021 mg/l
Marine water		0,000042 mg/l
Secondary poisoning		11,1 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,03 mg/l

### 8.2. Exposure controls

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**Appropriate engineering controls**

Provide adequate ventilation.

**Protective and hygiene measures**

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Remove contaminated clothing immediately and dispose off safely.

**Eye/face protection**

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

**Hand protection**

Wear suitable gloves.

Suitable material:

Breakthrough time  $\geq 480$  min.penetration time (maximum wearing period):  $\sim 180$  min.

Suitable material:

NBR (Nitrile rubber). (0,35 mm)

Butyl rubber. (0,5 mm)

FKM (fluororubber). (0,4 mm)

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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**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

**Respiratory protection**

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

Respiratory protection necessary at:

exceeding exposure limit values

generation/formation of aerosols

Generation/formation of mist

Suitable respiratory protective equipment:

Combination filtering device (EN 14387) Type : B- P2/P3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

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

Physical state:	liquid
Colour:	yellow
Odour:	characteristic (Chlorine.)
pH-Value:	>13 (conc.); 11 (0,2% in aqueous solution)

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**Changes in the physical state**

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Sublimation point:	No information available.
Softening point:	No information available.
Pour point:	No information available.
Flash point:	not determined
Sustaining combustion:	No data available

**Flammability**

Solid:	No information available.
Gas:	No information available.

**Explosive properties**

none

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

**Auto-ignition temperature**

Solid:	No information available.
Gas:	No information available.

Decomposition temperature:	not determined
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**Oxidizing properties**

none

Vapour pressure: (at 20 °C)	not determined
Vapour pressure: (at 50 °C)	No information available.
Density (at 20 °C):	1,25 g/cm <sup>3</sup>
Bulk density:	No information available.
Water solubility:	miscible.

**Solubility in other solvents**

not determined

Partition coefficient:	No information available.
Viscosity / dynamic:	< 30 mPa·s
Viscosity / kinematic:	not determined
Flow time:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined

**9.2. Other information**

Solid content:	not determined
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

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**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.  
May cause decomposition by long-term light influence.  
Decomposition takes place from temperatures above: 40°C  
Decomposition under formation of: Chlorine (Cl<sub>2</sub>). Oxygen. (Danger of bursting container.)

**10.3. Possibility of hazardous reactions**

The product develops hydrogen in an aqueous solution in contact with metals. (Explosion hazard)  
Contact with acids liberates toxic gas. (Chlorine.)

**10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

**10.5. Incompatible materials**

Materials to avoid: Strong acid. Base metals and alloys. Aluminium. Zinc. Lead. Oxidizing agents. Reducing agents. Amines. Ammonia.

**10.6. Hazardous decomposition products**

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Phosphorus oxides. Chlorine (Cl<sub>2</sub>)  
Hydrogen chloride (HCl)

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50 333 mg/kg	Rat	ECHA	
10213-79-3	disodium metasilicate-pentahydrate				
	oral	LD50 [770-820] mg/kg	Rat.	ECHA Dossier	
7681-52-9	Sodium Hypochlorite				
	oral	LD50 [1100] mg/kg	Rat	ECHA Dossier	
	dermal	LD50 20000 mg/kg	Rat	ECHA Dossier	
	inhalation (1 h) vapour	LC50 [10,5] mg/l	Rat	ECHA Dossier	

**Irritation and corrosivity**

Causes severe skin burns and eye damage.  
Evaluation/Classification: Sodium hypochlorite, solution 1 - 2,5 %: H315, H319; Literature information: ECHA Dossier

**Sensitising effects**

Based on available data, the classification criteria are not met.  
Sodium hypochlorite, solution: no danger of sensitization.; Literature information: ECHA Dossier

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.  
Sodium hypochlorite, solution : No experimental indications of mutagenicity in-vivo exist.; Literature



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information: ECHA dossier

disodium metasilicate:

In-vivo mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative.;

Literature information: ECHA Dossier

Developmental toxicity/teratogenicity: Species: Mouse. Result: NOAEL > 200 mg/kg; Literature information: ECHA Dossier

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

Sodium hypochlorite, solution :

Subchronic oral toxicity (90d) NOAEL = 34,4 mg/kg (Mouse.); Literature information: ECHA dossier

disodium metasilicate:

In-vivo mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative.;

Literature information: ECHA Dossier

Developmental toxicity/teratogenicity: Species: Mouse.; Result: NOAEL > 200 mg/kg. Literature information: ECHA Dossier

### Aspiration hazard

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

Evaluation/Classification: Sodium hypochlorite, solution 1 - 2,5 %: H412; Literature information: ECHA Dossier

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
10213-79-3	disodium metasilicate-pentahydrate					
	Acute fish toxicity	LC50 mg/l	2320	96 h	Gambusia affinis	ECHA Dossier
1310-73-2	Sodium hydroxide; caustic soda					
	Acute fish toxicity	LC50 mg/l	45,4	96 h	Onchorhynchus mykiss	IUCLID
	Acute crustacea toxicity	EC50 mg/l	40,4	48 h	Ceriodaphnia sp.	ECHA Dossier
7681-52-9	Sodium Hypochlorite					
	Acute fish toxicity	LC50 (TRO) mg/l	0,032	96 h	Fish ,various	ECHA Dossier
	Acute algae toxicity	ErC50	0,4 mg/l	96 h	Myriophyllum spicatum	ECHA Dossier
	Acute crustacea toxicity	EC50 mg/l	0,035	48 h	Ceriodaphnia dubia	ECHA Dossier

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

The statement is derived from the properties of the components.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Control report for waste code/ waste marking according to EAKV:

#### 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 hazardous substances; 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 hazardous substances; 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 hazardous substances; hazardous waste

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

UN 1719

#### 14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S. (Contains: potassium hydroxide, Sodium hydroxide; caustic soda )

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

8

#### 14.4. Packing group:

II

Hazard label:

8



Classification code:

C5

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

Hazard No:

80

Tunnel restriction code:

E

### Inland waterways transport (ADN)

#### 14.1. UN number:

UN 1719

#### 14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S. (Contains: potassium hydroxide, Sodium hydroxide; caustic soda )

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

8

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### 14.4. Packing group:

Hazard label:

II

8



Classification code:

C5

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

### Marine transport (IMDG)

#### 14.1. UN number:

UN 1719

#### 14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S. (Contains: potassium hydroxide, Sodium hydroxide )

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

8

#### 14.4. Packing group:

II

Hazard label:

8



Marine pollutant:

NO

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

EmS:

F-A, S-B

### Air transport (ICAO-TI/IATA-DGR)

#### 14.1. UN number:

UN 1719

#### 14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S. (Contains: potassium hydroxide, Sodium hydroxide )

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

8

#### 14.4. Packing group:

II

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

0.5 L

Passenger LQ:

Y840

Excepted quantity:

E2

IATA-packing instructions - Passenger:

851

IATA-max. quantity - Passenger:

1 L

IATA-packing instructions - Cargo:

855

IATA-max. quantity - Cargo:

30 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

Safe handling: see section 7

Personal protection equipment: see section 8

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**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

**Additional information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
REACH 1907/2006 Appendix XVII, No (mixture): 3

**National regulatory information**

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D):	2 - clearly water contaminating

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

caustic potash, potassium hydroxide  
disodium metasilicate-pentahydrate  
Sodium hydroxide; caustic soda  
Sodium Hypochlorite

**SECTION 16: Other information****Changes**

Rev. 1,00: 29.02.2012  
Rev. 1,01: 02.05.2012  
Rev. 1,02: 08.05.2012  
Rev. 1,03: 14.08.2012  
Rev. 1,10: 19.11.2013  
Rev. 1,11: 10.02.2014  
Rev. 1,20: 16.06.2016 ; Changes in chapter: 1-16  
Rev. 2,00: 18.07.2017 ; Changes in chapter: 1-16  
Rev. 2,10: 24.01.2018 ; Changes in chapter: 2, 15, 16  
Rev. 3,00: 04.19.2018 ; Changes in chapter: 2, 3, 7, 15, 14, 16

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
CAS Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
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)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HYLINE HLU-30**

Revision date: 04.10.2018

Product code:

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LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OSHA: Occupational Safety and Health Administration  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
SARA: Superfund Amendments and Reauthorization Act  
SVHC: substance of very high concern  
TRGS Technische Regeln fuer Gefahrstoffe  
TSCA: Toxic Substances Control Act  
VOC: Volatile Organic Compounds  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data and / or calculated and / or estimated.
Skin Corr. 1; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and 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.  
EUH031 Contact with acids liberates toxic gas.

**Further Information**

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:  
Health hazards: Calculation method.  
Environmental hazards: Calculation method.  
Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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