

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 1 of 14

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

HYLINE HLG-10

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

Cleaning agent, alkaline.

Uses advised against

Any non-intended use.

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	e-mail:	info@tge-consult.de
	Chemieberatung GmbH	Tel.:	+49(0)251/394868-69
	Raesfeldstr. 22		www.tge-consult.de
	D-48149 Münster		

1.4. Emergency telephone number:

Giftnotruf (Poison Center) Berlin: +49 (0) 30 30686700

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

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

Signal word: Danger**Pictograms:****Hazard statements**

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 2 of 14

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.

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

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			1 - < 5 %
	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			1 - < 5 %
	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			
497-19-8	sodium carbonate			1 - < 5 %
	207-838-8	011-005-00-2	01-2119485498-19	
	Eye Irrit. 2; H319			
7446-19-7	zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)			< 1 %
	231-793-3	030-006-00-9		
	Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H318 H400 H410			
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides			< 1 %
	931-292-6		01-2119490061-47	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H315 H318 H400 H411			

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

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

5 % - < 15 % phosphates, < 5 % anionic surfactants, < 5 % polycarboxylates, < 5 % phosphonates, < 5 % non-ionic surfactants.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 3 of 14

Auxilison spray, Pulmicort-dosage-spray. (Auxilison 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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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. Auxilison spray, Pulmicort-dosage-spray. (Auxilison and Pulmicort are registered trademarks).

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

Sand. Foam. Carbon dioxide (CO₂). 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 (CO₂). Phosphorus oxides. Nitrogen oxides (NO_x).

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

Wear personal protection equipment (refer to section 8).

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

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.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 4 of 14

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.

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.

Hints on joint storage

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.
Recommended storage temperature: 2 - 35°C
Shelf Life (months): 36

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 ³	fibres/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		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			
Consumer DNEL, long-term		inhalation	systemic	1,55 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,74 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	6,22 mg/m³

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 5 of 14

Worker DNEL, long-term	dermal	systemic	1,49 mg/kg bw/day
497-19-8	sodium carbonate		
Consumer DNEL, long-term	inhalation	systemic	10 mg/m ³
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		
Worker DNEL, long-term	inhalation	systemic	6.2 mg/m ³
Worker DNEL, long-term	dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1.53 mg/m ³
Consumer DNEL, long-term	dermal	systemic	5.5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0.44 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
10213-79-3	disodium metasilicate-pentahydrate	
Freshwater		7,5 mg/l
Freshwater (intermittent releases)		7,5 mg/l
Marine water		1 mg/l
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	
Freshwater		0.034 mg/l
Freshwater (intermittent releases)		0.034 mg/l
Marine water		0.003 mg/l
Freshwater sediment		5.24 mg/kg
Marine sediment		0.524 mg/kg
Secondary poisoning		24 mg/l
Soil		1.02 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation.

Protective and hygiene measures

When using do not eat, drink or smoke.

Eye/face protection

Wear eye/face protection. DIN EN 166

Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time >= 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 6 of 14

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

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

-insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

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. Observe the wear time limits according to GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

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:	colourless
Odour:	odourless
pH-Value:	13 (conc.); 10,5 (0,2 % in aqueous solution)

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	~100 °C
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



Safety Data Sheet

HOBART GmbH

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 7 of 14

Ignition temperature: not determined

Auto-ignition temperature

Solid:

No information available.

Gas:

No information available.

Decomposition temperature:

No information available.

Oxidizing properties

none

Vapour pressure:

~23 hPa

(at 20 °C)

Vapour pressure:

No information available.

(at 50 °C)

Density (at 20 °C):

1,15 g/cm³

Bulk density:

No information available.

Water solubility:

miscible.

Solubility in other solvents

not determined

Partition coefficient:

No information available.

Viscosity / dynamic:

< 50 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

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Reacts with : Strong acid.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Aluminium. Zinc. Strong acid.

10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO₂). Phosphorus oxides. Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 8 of 14

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	
	dermal	LD50 > 5000 mg/kg	Rat	ECHA Dossier	EPA OPPTS 870.1200
	inhalation (4 h) vapour	LC50 > 2,06 mg/l	Rat	REACH Dossier	EPA OPPTS 870.1300
497-19-8	sodium carbonate				
	oral	LD50 2800 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 > 2000 mg/kg	Rabbit.	ECHA Dossier	
7446-19-7	zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)				
	oral	ATE 500 mg/kg			
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides				
	oral	LD50 1064 mg/kg	Rat	ECHA Dossier	

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

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

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate):

No experimental indications of mutagenicity in-vitro exist. Literature information: ECHA

No experimental indications of mutagenicity in-vivo exist. Literature information: ECHA

No indications of human carcinogenicity exist. Literature information: ECHA

Developmental toxicity/teratogenicity: NOAEL = 60 mg/kg; Literature information: ECHA

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 9 of 14

sodium carbonate:

In vitro mutagenicity/genotoxicity:

Method: (AMES SALMONELLA TYPHIMURIUM): -

Result: negative.

Literature information: FUJITA, H, AOKI, N AND SASAKI, M; MUTAGENICITY TEST OF FOOD ADDITIVES WITH SALMONELLA TYPHIMURIUM TA97 AND TA102. IX; TOKYO-TORITSU EISEI KENKYUSHO KENKYU NENPO 45:191-199, 1994

sodium carbonate:

Reproductive toxicity:

Method: -

Species: Mouse.

Exposure duration: 15d

Results: NOAEL = 340 mg/kg

Literature information: Organization for Economic Cooperation and Development; SIDS Initial Assessment Profile (SIAP) for SIAM 15 (Boston, USA, 22-25 October 2002) Sodium carbonate (497-19-8) p.16.

Developmental toxicity/teratogenicity:

Method: -

Species: Rat

Exposure duration: 15d

Results: NOAEL >= 245 mg/kg mg/L

Literature information: ECHA Dossier

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides:

In-vitro mutagenicity:

Method:

-EU Method B.17 (Mutagenicity - In Vitro Mammalian Cell Gene Mutation Test)

-OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Result: negative.

Literature information: ECHA dossier

Subacute oral toxicity:

Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Species: Rat

Exposure duration: 28 d.

Results:

NOAEL = 40 mg/kg (Toxicity)

NOAEL = 100 mg/kg (Developmental toxicity/teratogenicity)

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.

disodium metasilicate:

Subchronic oral toxicity:

Exposure time: 90d

Species: Wistar Rat.

Method: OECD Guideline 408

Result: NOAEL > 227 mg/kg

Literature information: ECHA Dossier

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate):

Subchronic oral toxicity (Rat) NOEL = 458 mg/kg; Literature information: ECHA

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 10 of 14

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides:
 Subchronic oral toxicity :
 Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
 Species: Sprague-Dawley Rat
 Exposure duration: 90 d.
 Results: NOAEL = 88 mg/kg.
 Literature information: ECHA Dossier

Aspiration hazard

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

Specific effects in experiment on an animal

No data available

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
10213-79-3	disodium metasilicate-pentahydrate					
	Acute fish toxicity	LC50 210 mg/l	96 h	Danio rerio	REACH Dossier	ISO 7346-1
	Acute algae toxicity	ErC50 207 mg/l	72 h	Desmodesmus subspicatus	REACH Dossier	DIN 38412, Teil 9
	Acute crustacea toxicity	EC50 1700 mg/l	48 h	Daphnia magna	REACH Dossier	EU Method C.2
	Acute bacteria toxicity	(> 100 mg/l)	3 h	activated sludge, domestic	REACH Dossier	OECD Guideline 209
497-19-8	sodium carbonate					
	Acute fish toxicity	LC50 300 mg/l	96 h	Lepomis macrochirus	ECHA Dossier	
	Acute crustacea toxicity	EC50 200 - 227 mg/l	48 h	Ceriodaphnia sp.	ECHA Dossier	
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides					
	Acute fish toxicity	LC50 2,67-3,46 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute crustacea toxicity	EC50 10,5 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Algae toxicity	NOEC 0,067 mg/l	28 d		ECHA Dossier	

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	>70	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
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Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 11 of 14

308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	0,93
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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.

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. The product needs to apply neutralizing agents before draining to wastewater treatment plants. 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. (potassium hydroxide, disodium metasilicate-pentahydrate)

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 12 of 14

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. (potassium hydroxide, disodium metasilicate-pentahydrate)

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

Marine transport (IMDG)

14.1. UN number:

UN 1719

14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S. (potassiumhydroxide, disodium metasilicate-pentahydrate)

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. (potassiumhydroxide, disodium metasilicate-pentahydrate)

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 13 of 14

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Safe handling: see section 7

Personal protection equipment: see section 8

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): not determined

2004/42/EC (VOC): not determined

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

REACH 1907/2006 Appendix XVII: 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 carbonate

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

SECTION 16: Other information**Changes**

Rev. 1,0 : 28.02.2012

Rev. 1,01: 02.05.2012

Rev. 1,02: 14.05.2012

Rev. 1,10: 15.06.2016; Changes in chapter: 1-16

Rev. 1.20: 11.04.2016; Changes in chapter: 2,3,5,7,8,9,10,11,12,15

Rev. 2.00: 24.10.2018; Changes in chapter: 1-16

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)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HLG-10

Revision date: 24.10.2018

Product code:

Page 14 of 14

LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
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 fuerGefahrstoffe
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
Skin Corr. 1B; 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.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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.)