

according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 1 of 13

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

1.1. Product identifier

HYLINE HLG-1000

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

Use of the substance/mixture

Cleaning agent, acidic.

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: e-mail: Internet:	+49 (0) 781.600-0 info@hobart.de www.hobart.de	Telefax:+49 (0) 781.600-23 19
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	Giftnotruf (Poison Center) Be	erlin: +49 (0) 30 30686700

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008 Hazard categories: Serious eye damage/eye irritation: Eye Irrit. 2 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

Warning

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word:

Pictograms:



Hazard statements

H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to local/regional/national/international regulations.

according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 2 of 13

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 Regulat	ion (EC) No. 1272/2008 [(
9038-95-3	1-[2-[2-(3-methoxypropoxy)propoxy	/]ethoxy]butane		5 - 15 %
			02-2119630717-36	
	Acute Tox. 4; H302			
67-63-0	propan-2-ol; isopropyl alcohol; isop	ropanol		1 - < 5 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336	·	
196823-11-7	Oxirane, methyl-, polymer with oxir	1 - < 5 %		
	Eye Irrit. 2; H319	-	·	
5949-29-1	citric acid monohydrate		1 - < 5 %	
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
28348-53-0	Sodium cumenesulfonate	1 - < 5 %		
	248-983-7			
	Eye Irrit. 2; H319			
34590-94-8	(2-methoxymethylethoxy)propanol			1 - < 5 %
	252-104-2			
7446-19-7	zinc sulphate (hydrous) (mono-, he		< 1 %	
	231-793-3	030-006-00-9		
	Acute Tox. 4, Eye Dam. 1, Aquatic			

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

Further Information

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

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

5 - 15 % non-ionic surfactants

< 5 % anionic surfactants

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



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 3 of 13

irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

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). Sulphur oxides

5.3. Advice for firefighters

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

Safe handling: see section 7 Personal protection equipment: see section 8 High slip hazard because of leaking or spilled product.

6.2. Environmental precautions

Discharge into the environment must be avoided.

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

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. Do not mix with: chlorine-based bleaching agents

Advice on protection against fire and explosion

Usual measures for fire prevention.



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 4 of 13

Further information on handling

Advices on general occupational hygiene refer to chapter 8 Shelf Life (months): 36

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Unsuitable materials for Container: metal. Keep container tightly closed. Keep/Store only in original container. Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Recommended storage temperature: (-)10 - 35°C Protect against: Light. UV-radiation/sunlight. heat. frost. moisture.

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/m³	fibres/ml	Category	Origin
34590-94-8	(2-methoxymethylethoxy) propanol	50	308		TWA (8 h)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
67-63-0 propan-2-ol; isopropyl alcohol; isopropanol					
Worker DNEL, long-term		inhalation	systemic	500 mg/m³	
Worker DNEL,	long-term	dermal	systemic	888 mg/kg bw/day	

PNEC values

CAS No	Substance				
Environment	al compartment	Value			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
Freshwater s	ediment	552 mg/kg			
Freshwater		140,9 mg/l			
Marine sedin	nent	552 mg/kg			
Soil		28 mg/kg			
Secondary p	oisoning	160 mg/kg			
Marine water		140,9 mg/l			
Micro-organisms in sewage treatment plants (STP)		2251 mg/l			
5949-29-1 citric acid monohydrate					
Freshwater		0,44 mg/l			



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 5 of 13

Marine water	0,044 mg/l
Freshwater sediment	34,6 mg/kg
Marine sediment	3,46 mg/kg
Micro-organisms in sewage treatment plants (STP)	1000 mg/l
Soil	33,1 mg/kg

8.2. Exposure controls



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.

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). 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 Breakthrough time ≥ 8 h NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm Breakthrough time >= 8 h PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm Breakthrough time >= 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. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

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 : A- 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

Environmental exposure controls

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

must be used.



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 6 of 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state: liquid Colour: colourless Odour: odourless pH-Value: 2,2 (conc.); 3,5 (0,2 %in aqueous solution) Changes in the physical state not determined Melting point: not determined Initial boiling point and boiling range: not determined Sublimation point: Softening point: not determined not determined Pour point: not determined Flash point: Sustaining combustion: No data available **Explosive properties** none Lower explosion limits: 2 (IPA) vol. % Upper explosion limits: 12 (IPA) vol. % Ignition temperature: 425 (IPA) °C Auto-ignition temperature not determined Gas: not determined Decomposition temperature: **Oxidizing properties** none Vapour pressure: 42,5 (IPA) hPa Density: 1,05 g/cm³ Water solubility: miscible. Solubility in other solvents not determined Partition coefficient: not determined Viscosity / dynamic: < 50 mPa·s Viscosity / kinematic: not determined Flow time: not determined Vapour density: not determined not determined Evaporation rate: Solvent separation test: not determined Solvent content: not determined 9.2. Other information Solid content: not determined

SECTION 10: Stability and reactivity



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 7 of 13

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

No information available.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No data available.

Acute toxicity

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

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
9038-95-3	1-[2-[2-(3-methoxypropo	[2-(3-methoxypropoxy)propoxy]ethoxy]butane							
	oral	LD50 2000] mg/ł	[200- ‹g	Rat	(M)SDS extern.				
67-63-0	propan-2-ol; isopropyl al	cohol; isopro	panol						
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier				
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA Dossier				
5949-29-1	citric acid monohydrate								
	oral	LD50 mg/kg	5400	Mouse	REACH Dossier	OECD Guideline 401			
	dermal	LD50 mg/kg	> 2000	Rat	REACH Dossier	OECD Guideline 402			
28348-53-0	Sodium cumenesulfonate	9							
	oral	LD50 mg/kg	>7000	Rat	ECHA Dossier				
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier				
34590-94-8	(2-methoxymethylethoxy)propanol							
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier				
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier				
7446-19-7	zinc sulphate (hydrous) (mono-, hexa	a-and hepta h	nydrate)					
	oral	ATE mg/kg	500						



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 8 of 13

Irritation and corrosivity Causes serious eye irritation. Skin corrosion/irritation: Based on available data, the classification criteria are not met. Sensitising effects Based on available data, the classification criteria are not met. propan-2-ol; isopropyl alcohol; isopropanol: no danger of sensitization. Carcinogenic/mutagenic/toxic effects for reproduction Based on available data, the classification criteria are not met. propan-2-ol; isopropyl alcohol; isopropanol: OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative., Literature information: ECHA Dossier OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = negative., Literature information: ECHA Dossier No indications of human carcinogenicity exist., Literature information: ECHA Dossier Reproductive toxicity: Method: OECD Guideline 415 (One-Generation Reproduction Toxicity Study) Species: Rat Results: NOAEL = 853 mg/kg Literature information: ECHA Dossier Developmental toxicity/teratogenicity: Method: (oral.) OECD Guideline 414 (Prenatal Developmental Toxicity Study) Species: Rabbit Results: NOAEL = 480 mg/kg Literature information: ECHA Dossier (2-Methoxymethylethoxy)propanol: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) = negative. Literature information: ECHA Dossier Citric acid: In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: negative. Literature information: ECHA Dossier zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate): In vitro mutagenicity/genotoxicity: Result / evaluation: negative. In vivo mutagenicity/genotoxicity: Species: Mouse. Result / evaluation: negative.; Carcinogenicity: Species: Mouse. Exposure duration: 1 year. Result: NOAEL > 22000 mg/L Drinking water. Developmental toxicity/teratogenicity: Species: hamster. Exposure duration:14d. Result: NOAEL = 88 mg/kg bw/day. 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. propan-2-ol; isopropyl alcohol; isopropanol: Chronic inhalative toxicity (Rat): NOAEC = 5000 ppm (OECD 451), Literature information: ECHA Dossier (2-Methoxymethylethoxy)propanol: Subacute oral toxicity NOAEL = 1000 mg/kg (Rat.) Subchronic dermal toxicity NOEL = 2850 mg/kg (Rabbit.) Subchronic inhalative toxicity NOAEL = 200 ppm (Rat.); Literature information: ECHA Dossier Citric acid: NOAEL = 1500 mg/kg propan-2-ol; isopropyl alcohol; isopropanol: Chronic inhalative toxicity (Rat): NOAEC = 5000 ppm (OECD 451) zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate): Subchronic oral toxicity : Method: OECD 408 Exposure duration: 90d. Species: Rat. Result: NOEL 3000 ppm. Literature information: ECHA Dossier



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 9 of 13

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		
9038-95-3	1-[2-[2-(3-methoxypropoxy)propoxy]ethoxy]butane								
	Acute fish toxicity	LC50 mg/l	>100	96 h	Bracydanio rerio	(M)SDS extern.			
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Scenedesmus Subspicatus	(M)SDS extern.			
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Dapnia Magna	(M)SDS extern.			
67-63-0	propan-2-ol; isopropyl alc	ohol; isoprop	anol						
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas	ECHA Dossier			
	Acute algae toxicity	ErC50 mg/l	1800		Scenedesmus quadricauda	ECHA Dossier			
	Acute crustacea toxicity	EC50 mg/l	>10000	48 h	Daphnia magna (24h)	ECHA Dossier			
196823-11-7	Oxirane, methyl-, polymer	with oxirane	e, monoisotri	idecyl etł	ner, block				
	Acute fish toxicity	LC50 mg/l	1-10	96 h	Brachydanio rerio	(M)SDS extern			
	Acute algae toxicity	ErC50 mg/l	1-10						
	Acute crustacea toxicity	EC50 mg/l	10-100	48 h	Daphnia magna	(M)SDS extern			
5949-29-1	citric acid monohydrate								
	Acute fish toxicity	LC50 (48h) mg/l	760	96 h	Leuciscus idus melanotus	ECHA Dossier			
	Acute crustacea toxicity	EC50 mg/l	> 50	48 h	Dreissena polymorpha	Environ.Toxicol.Ch em. 16(9): 1930-1934 (ASTM		
	Algea toxicity	NOEC	425 mg/l	8 d	Scenedesmus quadricauda	Water Research 14: 231-241 (1980)			
28348-53-0	Sodium cumenesulfonate								
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Oncorhynchus mykiss	ECHA Dossier	EPA OTS 797.1400		
	Acute algae toxicity	ErC50 mg/l	>=230	96 h	Pseudokirchneriella subcapitata	ECHA Dossier	EPA OTS 797.1050		
	Acute crustacea toxicity	EC50 mg/l	> = 40	48 h	Daphnia magna	ECHA Dossier			
34590-94-8	(2-methoxymethylethoxy)	propanol							
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Poecilia reticulata (Guppy)	ECHA Dossier			
	1			1					



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000 Product code: Revision date: 24.10.2018 Page 10 of 13 ErC50 >1000 72 h Pseudokirchneriella ECHA Dossier Acute algae toxicity mg/l subcapitata EC50 Acute crustacea toxicity >1000 48 h Daphnia magna ECHA Dossier mg/l

12.2. Persistence and degradability

The p	roduct has not been tested.								
CAS No	Chemical name								
	Method	Value	d	Source					
	Evaluation	-	•	•					
9038-95-3	1-[2-[2-(3-methoxypropoxy)propoxy]ethoxy]butane								
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	>60%	28	(M)SDS extern.					
	Readily biodegradable (according to OECD criteria).								
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol								
	EU Method C.5/ EU Method C.6	53%	5	ECHA Dossier					
	Easily biodegradable (concerning to the criteria of the OE	CD)							
196823-11-7	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block								
	OECD 301E/ EEC 92/69/V, C.4-B	>90	28	(M)SDS extern					
	Readily biodegradable (according to OECD criteria).								
5949-29-1	citric acid monohydrate								
	OECD Guideline 301 E	100	16	REACH Dossier					
	Easily biodegradable (concerning to the criteria of the OE	CD)							
28348-53-0	Sodium cumenesulfonate								
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	100%	28	ECHA Dossier					
	Readily biodegradable (according to OECD criteria).								
34590-94-8	(2-methoxymethylethoxy)propanol								
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	76 %	28	ECHA Dossier					
	Easily biodegradable (concerning to the criteria of the OECD)								

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

The statement is derived form the properties of the components.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05
5949-29-1	citric acid monohydrate	-1,55
28348-53-0	Sodium cumenesulfonate	-1,1

BCF

CAS No	Chemical name	BCF	Species	Source
5949-29-1	citric acid monohydrate	3,2		REACH Dossier

12.4. Mobility in soil

No data 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 data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 11 of 13

13.1. Waste treatment methods

Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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

Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Waste disposal number of used product

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Waste disposal number of contaminated packaging

200399 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; other municipal wastes; municipal wastes not otherwise specified

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Inland waterways transport (ADN)				
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Marine transport (IMDG)				
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Air transport (ICAO-TI/IATA-DGR)				
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	no			
14.6. Special precautions for user Refer to section 6-8				
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code				
not relevant				



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

work protection guideline' (94/33/EC). 2 - clearly water contaminating

Observe restrictions to employment for juvenils according to the 'juvenile

Page 12 of 13

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

Water contaminating class (D):

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: propan-2-ol; isopropyl alcohol; isopropanol citric acid monohydrate

SECTION 16: Other information

Changes

Rev. 1,0: 29.02.2012 Rev. 1.01 26.04.2012 Rev. 1,02 14.05.2012 Rev.. 1,10 ; Changes in chapter: 1-16 ; 15.06.2015 Rev.. 2,00 ; Changes in chapter: 1-16 ; 24.10.2018

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 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



according to Regulation (EC) No 1907/2006

HYLINE HLG-1000

Revision date: 24.10.2018

Product code:

Page 13 of 13

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 wassergefaehrdender Stoffe

WGK: Wassergefaehrdungsklasse

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

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.

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.)