

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 1 of 11

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

HYLINE HT-200

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

Cleaner, solid

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)251/924520-60
	Raesfeldstr. 22		www.tge-consult.de
	D-48149 Münster		

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:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

2.2. Label elements**Regulation (EC) No. 1272/2008**

Signal word: Warning

Pictograms:

**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash hands thoroughly after handling.

P302+P352 IF ON SKIN: Wash with plenty of water.

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.

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 2 of 11

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]			
497-19-8	sodium carbonate			10 - 30 %
	207-838-8	011-005-00-2	01-2119485498-19	
	Eye Irrit. 2; H319			
15630-89-4	disodium carbonate, compound with hydrogen peroxide (2:3)			10 - 20 %
	239-707-6			
	Ox. Sol. 3, Acute Tox. 4, Eye Dam. 1; H272 H302 H318			
1344-09-8	Silicic acid, sodium salt			10 - 20 %
	215-687-4			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
5949-29-1	citric acid, monohydrate			1 - 5 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
	LONG CHAIN ALCOHOL, ALKOXYLATED			1 - 5 %
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			

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

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

15 % - < 30 % oxygen-based bleaching agents, < 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.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 3 of 11

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).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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**

Avoid dust formation.

Do not breathe dust.

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Take up mechanically.

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

Personal protection equipment: see section 8

Disposal: see section 13

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

Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

Avoid generation of dust.

General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 4 of 11

Advice on storage compatibility

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

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20°C

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

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
DNEL type				
497-19-8	sodium carbonate			
Consumer DNEL, long-term		inhalation	systemic	10 mg/m ³
1344-09-8	Silicic acid, sodium salt			
Worker DNEL, long-term		dermal	systemic	1,59 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	5,61 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	1,38 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,8 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,8 mg/kg bw/day

PNEC values

CAS No	Substance	Value
Environmental compartment		
1344-09-8	Silicic acid, sodium salt	
Freshwater		7,5 mg/kg
Freshwater (intermittent releases)		7,5 mg/kg
Marine water		1,0 mg/kg
Micro-organisms in sewage treatment plants (STP)		348 mg/l
5949-29-1	citric acid, monohydrate	
Freshwater		440 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Soil		33,1 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Dust should be exhausted directly at the point of origin.

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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 5 of 11

Eye/face protection

Dust protection goggles.

Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

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

Breakthrough time \geq 8 h

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

Breakthrough time \geq 8 h

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

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

Suitable protective clothing: Protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

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

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	white
Odour:	characteristic

pH-Value:	10,5
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Test method**Changes in the physical state**

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not determined
Sustaining combustion:	Not sustaining combustion

Explosive properties

none

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 6 of 11

Auto-ignition temperature

Gas: not determined

Decomposition temperature: not determined

Oxidizing properties

none

Vapour pressure: not determined

Density: 1 g/cm³

Bulk density: not determined

Water solubility: easily soluble.

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not applicable

Vapour density: not applicable

Evaporation rate: not applicable

Solvent separation test: not applicable

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

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 productsCan be released in case of fire: Carbon monoxide, Carbon dioxide (CO₂).**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available.

Acute toxicity

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 7 of 11

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
497-19-8	sodium carbonate			
	oral	LD50 2800 mg/kg	Rat	ECHA Dossier
	dermal	LD50 > 2000 mg/kg	Rabbit.	ECHA Dossier
15630-89-4	disodium carbonate, compound with hydrogen peroxide (2:3)			
	oral	LD50 893 mg/kg	Rat. female.	ECHA Dossier
	dermal	LD50 >2000 mg/kg	Rabbit.	ECHA Dossier
1344-09-8	Silicic acid, sodium salt			
	oral	LD50 3400 mg/kg	Rat	ECHA Dossier
5949-29-1	citric acid, monohydrate			
	dermal	LD50 >2000 mg/kg	Rat.	ECHA Dossier

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

disodium carbonate, compound with hydrogen peroxide (2:3):

SCL: Eye Dam. 1 > 25%

SCL: Eye Irrit. 2 10 - 25%

SCL = specific conc. limit

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

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 ; literature information: ECHA Dossier

Silicic acid, sodium salt:

In vitro mutagenicity/genotoxicity:

Method:

-OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

-OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

-In vitro Mammalian Cell Gene Mutation Test

literature information: ECHA dossier

citric acid, monohydrate:

In-vitro mutagenicity:

Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Result: negative. ; literature information: ECHA dossier

STOT-single exposure

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

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 8 of 11

STOT-repeated exposure

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

Silicic acid, sodium salt:

Subacute oral toxicity :

Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Exposure time: 28d

species: Rat

Results: NOAEL = 300 g/kg

literature information: ECHA Dossier

Subchronic oral toxicity:

Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents). Species: Rat.

Result: NOAEL = 250 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
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
15630-89-4	disodium carbonate, compound with hydrogen peroxide (2:3)				
	Acute fish toxicity	LC50 70,7 mg/l	96 h	Pimephales promelas	ECHA Dossier
	Acute crustacea toxicity	EC50 4,9 mg/l	48 h	Daphnia pulex	ECHA Dossier
1344-09-8	Silicic acid, sodium salt				
	Acute fish toxicity	LC50 1108 mg/l	96 h	Danio rerio	ECHA Dossier
	Acute algae toxicity	ErC50 207 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50 1700 mg/l	48 h	Daphnia magna	ECHA Dossier
5949-29-1	citric acid, monohydrate				
	Acute fish toxicity	LC50 440 mg/l	96 h	Leuciscus idus (golden orfe)	ECHA Dossier

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
5949-29-1	citric acid, monohydrate			
	OECD 301E / EEC 92/69 annex V, C.4-B	100	19	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 9 of 11

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
5949-29-1	citric acid, monohydrate	-1,57

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**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

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
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 hazardous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

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:	Not restricted
14.2. UN proper shipping name:	Not restricted
14.3. Transport hazard class(es):	Not restricted
14.4. Packing group:	Not restricted

Inland waterways transport (ADN)

14.1. UN number:	Not restricted
14.2. UN proper shipping name:	Not restricted
14.3. Transport hazard class(es):	Not restricted
14.4. Packing group:	Not restricted

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 10 of 11

Marine transport (IMDG)

14.1. UN number:	Not restricted
14.2. UN proper shipping name:	Not restricted
14.3. Transport hazard class(es):	Not restricted
14.4. Packing group:	Not restricted

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	Not restricted
14.2. UN proper shipping name:	Not restricted
14.3. Transport hazard class(es):	Not restricted
14.4. Packing group:	Not restricted

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

refer to chapter 6-8

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):	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 not hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII: not relevant

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):	1 - slightly water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

Rev. 1.0; Initial release 29.12.2016

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
International Carriage of Dangerous Goods by Road)
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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLINE HT-200

Revision date: 29.12.2016

Product code:

Page 11 of 11

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: Concerning the International Transport of Dangerous Goods by Rail)
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 für Gefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

Relevant H and EUH statements (number and full text)

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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.)