SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

GEBO Liquid L

Print Date 15.05.2017

Revision date / valid from 15.05.2017

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

1.1. Product identifier

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	Trade name Substance name CAS-No. EC-No.	 Gebo Liquid L Water glass, cellulose, borax mol ratio SiO2/Na2O >3,2 1344-09-8 215-687-4
1.2.	Relevant identified uses	of the substance or mixture and uses advised against
	Use of the Substance/Mixture	: At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.
	Uses advised against	: At this moment we have not identified any uses advised against
1.3.	Details of the supplier of	the safety data sheet
	Company Telephone Telefax E-mail address Responsible/issuing person	 GEBO Armaturen GmbH Am Damm 4 DE 58332 Schwelm +49 (0)2336-9285-0 +49 (0)2336-928570 info@gebo.de Technology
1.4.	Emergency telephone nu	mber
	Emergency telephone	: +49 (0)2336-928537
	-	

Most important adverse effects Human Health 1 See section 11 for toxicological information. Physical and chemical : See section 9 for physicochemical information. hazards Potential environmental : See section 12 for environmental information. effects 2.2. Label elements Labelling according to Regulation (EC) No 1272/2008 The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008. Additional Labelling: EUH210 Safety data sheet available on request. Hazardous components which must be listed on the label: • Water glass, cellulose, borax, sodium tripolyphosphate, mol ratio SiO2/Na2O >3,2 2.3. Other hazards For Results of PBT and vPvB assessment see section 12.5. **SECTION 3: Composition/information on ingredients** 3.1. Chemical nature Aqueous solution ÷ Classification (REGULATION (EC) No 1272/2008) Hazardous components Amount [%] Hazard class / Hazard Hazard category statements Water glass, cellulose, borax, sodium tripolyphosphate SiO2/Na2O >3,2 CAS-No. Skin Irrit.2 H315 : 1344-09-8 EC-No. : 215-687-4 Eye Irrit.2 H319 < 40 STOT SE3 Registration H335 : 01-2119448725-31-xxxx For the full text of the H-Statements mentioned in this Section, see Section 16. EN 2/13

	4.1.	Description of first aid measures
	General advice	: Move out of dangerous area. Take off all contaminated clothing immediately.
	If inhaled	: Move to fresh air. In case of shortness of breath, give oxygen. If symptoms persist, call a physician.
	In case of skin contact	: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
	In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult a specialist as a precaution.
	If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician. If a person vomits when lying on his back, place him in the recovery position.
	Most important symptoms	and effects, both acute and delayed
	Symptoms	: Mild eye irritation, Moderate skin irritation
	Effects	: Health injuries are not known or expected under normal use.
.	Indication of any immediat	e medical attention and special treatment needed
		•
- 1	Treatment	: Treat symptomatically.
		: Treat symptomatically.
ΞΟ	CTION 5: Firefighting mea	: Treat symptomatically.
EC	CTION 5: Firefighting mea Extinguishing media	: Treat symptomatically.
EC	CTION 5: Firefighting mea	 Treat symptomatically. sures Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The production of the surrounding environment.
EC	CTION 5: Firefighting mea Extinguishing media Suitable extinguishing	 Treat symptomatically. sures Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The produc itself does not burn.
EC	CTION 5: Firefighting mea Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	 Treat symptomatically. sures Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The produc itself does not burn.
EC	CTION 5: Firefighting mea Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	 Treat symptomatically. sures Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The productitself does not burn. None known.
EC 1. 2.	CTION 5: Firefighting mea Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising fro Specific hazards during	 Treat symptomatically. sures Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The productitself does not burn. None known.
EC 1. 2.	CTION 5: Firefighting mea Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising fro Specific hazards during firefighting	 Treat symptomatically. sures Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The productiself does not burn. None known. om the substance or mixture None known. the substance or mixture None known.
EC	CTION 5: Firefighting mea Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising fro Specific hazards during firefighting Advice for firefighters Special protective	 Treat symptomatically. sures Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn. None known. om the substance or mixture None known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Avoid contact with skin
	and eyes. Danger of slipping if spilled

6.2. Environmental precautions

Environmental precautions	: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
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6.3. Methods and materials for containment and cleaning up

Methods and materials for	: Absorb with liquid-binding material (sand, diatomite, acid
containment and cleaning	binders, universal binders). Treat recovered material as
up	described in the section "Disposal considerations". Flush with
	plenty of water.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Advice on safe handling	: Keep container tightly closed. Handle and open container with care.
	Hygiene measures	: Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.
	7.2. Conditions for safe storage	e, including any incompatibilities
	Requirements for storage areas and containers	: Keep in an area equipped with alkali resistant flooring. Suitable materials for containers: Stainless steel; Mild steel; Unsuitable materials for containers: Aluminium; Zinc; glass; ceramics
	Advice on protection against fire and explosion	: The product is not flammable. Normal measures for preventive fire protection.
	Further information on storage conditions	: Keep tightly closed in a dry and cool place. Keep in a well- ventilated place. Protect from frost.
	Advice on common storage	: Do not store near acids.
	German storage class	: 12 Non Combustible Liquids
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GEBO Liquid L 7.3. Specific end use(s) : No information available **SECTION 8: Exposure controls/personal protection** 8.1. Control parameters **Other Occupational Exposure Limit Values** (Additional) : no data available Information Component: Water glass, cellulose, borax, sodium tripolyphosphate CAS-No. SiO2/Na2O >3,2 1344-09-8 Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL) DNEL Workers, Long-term - systemic effects, Inhalation : 5,61 mg/m3 DNEL Workers, Long-term - systemic effects, Skin contact : 1,59 mg/kg bw/day DNEL Consumers, Long-term - systemic effects, Inhalation 1,38 mg/m3 : DNEL Consumers, Long-term - systemic effects, Skin contact 0,80 mg/kg bw/day : DNEL Consumers, Long-term - systemic effects, Ingestion 0,80 mg/kg bw/day : Predicted No Effect Concentration (PNEC) Fresh water : 7,5 mg/l Marine water 1 mg/l 1 348 mg/l Sewage treatment plant (STP) 1 Intermittent releases 7,5 mg/l • 8.2. Exposure controls Appropriate engineering controls No special precautions required. Personal protective equipment Hand protection Advice Protective gloves The following materials are suitable:

	natural rubber Nitrile rubber butyl-rubber fluorocarbon rubber polychloroprene Protective gloves should be replaced at first signs of wear.
Eye protection	
Advice	Tightly fitting safety goggles
Skin and body protection	on
Advice	Wear suitable protective clothing.
Environmental exposu	re controls
General advice	 Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
TION 9: Physical and Information on basic ph Form	ysical and chemical properties
nformation on basic ph	
nformation on basic ph	ysical and chemical properties : liquid : red
Information on basic ph Form Colour	ysical and chemical properties : liquid
Information on basic ph Form Colour Odour	ysical and chemical properties : liquid : red : odourless
nformation on basic ph Form Colour Odour Odour Threshold	ysical and chemical properties : liquid : red : odourless : no data available : 11,4 (20 °C)
nformation on basic ph Form Colour Odour Odour Threshold pH	ysical and chemical properties : liquid : red : odourless : no data available : 11,4 (20 °C) (undiluted) : no data available
Form Colour Odour Odour Threshold pH Freezing point	ysical and chemical properties : liquid : red : odourless : no data available : 11,4 (20 °C) (undiluted) : no data available
Form Colour Odour Odour Threshold pH Freezing point Boiling point/boiling ran	ysical and chemical properties : liquid : red : odourless : no data available : 11,4 (20 °C) (undiluted) : no data available : a ca. 100 °C
Form Colour Odour Odour Threshold pH Freezing point Boiling point/boiling ran	ysical and chemical properties : liquid : red : odourless : no data available : 11,4 (20 °C) (undiluted) : no data available : no data available : no data available : not applicable : no data available
Form Form Colour Odour Odour Threshold pH Freezing point Boiling point/boiling ran Flash point Evaporation rate	ysical and chemical properties : liquid : red : odourless : no data available : 11,4 (20 °C) (undiluted) : no data available : no data available : no data available : not applicable : no data available
Form Form Colour Odour Odour Threshold pH Freezing point Boiling point/boiling ran Flash point Evaporation rate Flammability (solid, gas	ysical and chemical properties : liquid : red : odourless : no data available : 11,4 (20 °C) (undiluted) : no data available : no data available : no data available : not applicable : no data available : no data available : no tapplicable : no tapplicable

Vapour pressure	:	23 hPa (20 °C)
Relative vapour density	:	no data available
Density	:	1,28 g/cm3 (20 °C)
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	not applicable
Thermal decomposition	:	no data available
Viscosity, dynamic	:	no data available
Explosivity	:	Product is not explosive.
Oxidizing properties	:	None known.

9.2. Other information

No further information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

 Advice
 : No decomposition if stored and applied as directed.

 10.2. Chemical stability Advice

 Advice
 : No decomposition if stored and applied as directed. No further information available.

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10.3. Possibility of hazardous	reactions	
Hazardous reactions	: Gives off hydrogen by reaction with base metals (zinc, aluminium). Risk of explosion. Reacts exothermic with acids.	
10.4. Conditions to avoid		
Conditions to avoid Thermal decomposition	: Protect from frost, heat and sunlight. : no data available	
10.5. Incompatible materials		
Materials to avoid	: Acids, Light metals, Zinc, Ammonium salts	
10.6. Hazardous decompositio	n products	
Hazardous decomposition :	No decomposition if stored and applied as directed. products	
SECTION 11: Toxicological i 11.1. Information on toxicologic		
	Acute toxicity	
	Oral	
	Please find this information in the listing of the component/components below in the MSDS.	
	Inhalation	
	Please find this information in the listing of the component/components below in the MSDS.	
	Dermal	
	Please find this information in the listing of the component/components below in the MSDS.	
	Irritation	
	Skin	
Result :	May have irritant effects.	
	Eyes	
Result :	Contact with eyes may cause irritation.	
	8/13	EN

	Sensitisation
Result	: No sensitizing effect known.
	CMR effects
	CMR Properties
Carcinogenicity	: Contains no ingredient listed as a carcinogen
Mutagenicity	: Contains no ingredient listed as a mutagen
Teratogenicity	: It is not considered teratogenic.
Reproductive toxicity	: Contains no ingredient listed as toxic to reproduction
	Specific Target Organ Toxicity
	Single exposure
remark	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
	Repeated exposure
remark	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
	Other toxic properties
	Aspiration hazard
	No aspiration toxicity classification
	Further information
Other relevant toxicity information	: Health injuries are not known or expected under normal use. Handle in accordance with good industrial hygiene and safety practice.
Component:	Water glass, cellulose, borax, sodium tripolyphosphate
CAS-No.SiO2/Na	20 >3,2 1344-09-8
	Acute toxicity
	Oral
LD50	: 3400 mg/kg (rat, male and female) (OECD Test Guideline 401)
	9/13

	Inhalation	
LC50	: > 2,06 mg/l (rat, male and female; 4 h; vapour) (OPPT	S 870.1300
	Dermal	
LD50	: > 5000 mg/kg (rat, male and female) (OPPTS 870.120	0)
CTION 12: E	cological information	
1. Toxicity		
Component:	: Water glass, cellulose, borax, sodium tripolyphosphate	
CAS-No.SiO	02/Na2O >3,2 1344-0	9-8
	Acute toxicity	
	Fish	
LC50	: 1108 mg/l (Danio rerio (zebra fish); 96 h) (semi-static to	est; OECD
	Test Guideline 203)	
LC50	: 260 mg/l (Oncorhynchus mykiss; 96 h) (OECD-SIDS)	
	Toxicity to daphnia and other aquatic invertebrates	
EC50	: 1700 mg/l (Daphnia magna (Water flea); 48 h) (static te Regulation (EC) No. 440/2008, Annex, C.2)	est;
	algae	
EC50	: > 345,4 mg/l (Desmodesmus subspicatus (green algae (End point: Growth rate; DIN 38412)); 72 h)
12.2. Persiste	ence and degradability	
	Persistence and degradability	
	Biodegradability	
Result :	The methods for determining biodegradability are not applicable t inorganic substances.	0
	с. С	

Component:	Water glass, cellulose, borax, sodium tripolyphosphate CAS-No.SiO2/Na2O >3,2 1344-09-8
	Persistence and degradability
	Persistence
Result	: no data available
12.3. Bioaccum	ulative potential
Component:	Water glass, cellulose, borax, sodium tripolyphosphate
CAS-No.S	iO2/Na2O >3,2 1344-09-8
	Bioaccumulation
Result	: Bioaccumulation is not expected.
12.4. Mobility in	soil
Component:	Water glass, cellulose, borax, sodium tripolyphosphate
CAS-No.SiO2/	Na2O >3,2 1344-09-8
	Mobility
	no data available
12.5. Results of	PBT and vPvB assessment
12.5. Results of	PBT and vPvB assessment Results of PBT and vPvB assessment
12.5. Results of	
	Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
Result	Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
Result	Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB). erse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product	:	Do not let product enter drains. Dispose of as special waste in compliance with local and national regulations.
Contaminated packaging	:	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Clean container with water.
European Waste Catalogue Number	:	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not pplicable.

. Safety, health and er mixture	nvironmental regulatio	ns/legislation specific for the substance or
WGK (DE)		water endangering; WGK (DE); Self- cording VwVwS of 17 May 1999, Annex 3
Major Accident Hazard Legislation		der the German StörfallV
Other regulations	safety and hea	estrictions: Take note of Dir 92/85/EEC on the Ith of pregnant workers at work and of Dir e protection of young people at work.
Notification status		
Water glass, cellulos Regulatory List AICS DSL INV (CN) ENCS (JP) ISHL (JP) TSCA EINECS KECI (KR)	Notification YES YES YES YES YES YES YES	yphosphate, mol ratio SiO2/Na2O >3,2: Notification number (1)-508 (1)-508 215-687-4
PICCS (PH) 2. Chemical Safety Asso no data available CTION 16: Other infor Full text of H-State	rmation ments referred to unde	KE-31002 er sections 2 and 3.
PICCS (PH) 2. Chemical Safety Assent no data available CTION 16: Other infor Full text of H-State H315 H319	YES essment rmation ments referred to unde Causes skin irritation. Causes serious eye irri	er sections 2 and 3. tation.
PICCS (PH) 2. Chemical Safety Asson no data available CTION 16: Other infor Full text of H-State H315	YES essment rmation ments referred to under Causes skin irritation.	er sections 2 and 3. tation.
PICCS (PH) 2. Chemical Safety Assent no data available CTION 16: Other infor Full text of H-State H315 H319	YES essment rmation ments referred to unde Causes skin irritation. Causes serious eye irri	er sections 2 and 3. tation.
PICCS (PH) 2. Chemical Safety Assent no data available CTION 16: Other infor Full text of H-State H315 H319 H335	YES essment rmation ments referred to unde Causes skin irritation. Causes serious eye irri May cause respiratory es : Suppli substances" of	er sections 2 and 3. tation.
PICCS (PH) 2. Chemical Safety Asson no data available CTION 16: Other infor Full text of H-State H315 H319 H335 Further information Key literature reference	YES essment rmation ments referred to unde Causes skin irritation. Causes serious eye irri May cause respiratory es : Suppli substances" of to create this sa : The in our knowledge describes the p be considered a constitute a leg Data Sheet rela be valid for suc	er sections 2 and 3. tation. irritation. er information and data from the "Database of registered the European Chemicals Agency (ECHA) were used

13/13