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According to Regulation (EC) No. 1272/2008 Revision: 18.05.2017 Version number: 1,0 SilaMill Tec Liquid

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1.1	Product identifier	
	Commercial product name:	SilaMill Liquid
1.2	Relevant identified uses of the substanc	
	Identified uses:	Handling, dilution and transfers.
	Uses advised against:	Water-miscible metal working fluid. Industrial use. None known.
1.3	Details of the supplier of the safety data	sheet
	Manufacturer/Supplier:	SILADENT Dr. Böhme & Schöps GmbH
	Street / mailbox:	Im Klei 26
	Country code. / postal code / city:	DE - 38644 Goslar
	Phone:	+49 (0) 53 21 / 37 79 - 0
	Fax:	+49 (0) 53 21 / 38 96 32
	E-mail / Website:	info@siladent.de / www.siladent.de
	Further information obtainable from:	SILADENT Dr. Böhme & Schöps GmbH
1.4	Emergency telephone number	
	SILADENT Dr. Böhme & Schöps GmbH:	+49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m 4 p.m.)
<u>SEC</u> 2.1	TION 2: Hazards identification Classification of the substance or	The mixture has been assessed and/or tested for its
2.1	mixture:	physical, health and environmental hazards and the
		following classification applies.
	Classification according to Regulation (EC) No 1272/2008 as amended:	This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.
2.2	Label elements	
Label according to Regulation (EC) No. 1272/2008 as amended		
	Hazard pictograms:	None.
	Signal word:	None.
	Hazard statements:	The mixture does not meet the criteria for classification
	Precautionary statements	
	Prevention:	Observe good industrial hygiene practices.
	Response:	Wash hands after handling.
	Storage:	Store away from incompatible materials.
	Disposal:	Dispose of waste and residues in accordance with loca authority requirements.
	Supplemental label information:	None.

3.2 Mixtures



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	General information	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
	Ethanol, 2-(2- butoxyethoxy)- Classification:	1 - < 5 Eve	112-34-5 203-961-6 Irrit. 2;H319	01-2119475104-44-xxxx	603-096-00-8	#
	Ethanol, 2,2'- (methylimino)bis- Classification:	1 - < 5	105-59-9 203-312-7 Irrit. 2;H319	01-2119488970-24-xxxx		
Other components below reportable levels		ortable levels	60-100			
	List of abbreviation may be used above		mbols that	#: This substance has been as workplace exposure limit(s).	signed Commur	hity
	Composition com	ments:		The full text for all H-statement 16.	ts is displayed in	section
SEC [.]	TION 4: First aid me	easures				
4.1	General informati	on:		Ensure that medical personnel material(s) involved, and take themselves.		
	Inhalation:			Move to fresh air. Call a physic or persist.	cian if symptoms	develop
	Skin contact:			Wash off with soap and water. irritation develops and persists		ention if
	Eye contact:			Rinse with water. Get medical develops and persists.	attention if irritat	ion
	Ingestion:			Rinse mouth. Get medical atte	ntion if symptom	s occur.
4.2	Most important sy both acute and de		and effects,	Exposure may cause temporal discomfort.	ry irritation, redn	ess, or
4.3	Indication of any i attention and spe			Treat symptomatically.		
SEC	TION 5: Firefighting	measures	S			
	General fire hazar	ds		No unusual fire or explosion ha	azards noted.	
5.1	Extinguishing me Suitable extinguis		ia:	Water fog. Foam. Dry chemica (CO2).	ll powder. Carbo	n dioxide
	Unsuitable exting	uishing m	edia:	Do not use water jet as an exti spread the fire.	nguisher, as this	will
5.2	Special hazards a substance or mixe		n the	During fire, gases hazardous to	o health may be	formed.
5.3	Advice for firefigh Special protective firefighters:	nters equipme	nt for	Self-contained breathing appa clothing must be worn in case		tective



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	Special firefighting procedures:	Move containers from fire area if you can do so without risk.
	Hazardous combustion products:	Combustion products may include the following: Carbon oxides (CO, CO2); nitrogen oxides (NO, NO2).
SEC	TION 6: Accidental release measures	
6.1	Personal precautions, protective equipm	ent and emergency procedures
	For non-emergency personnel:	Keep unnecessary personnel away. For personal protection, see section 8.
	For emergency responders:	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2	Environmental precautions:	Avoid discharge into drains, water courses or onto the ground.
6.3	Methods and material for containment and cleaning up:	This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
6.4	Reference to other sections:	For personal protection, see section 8. For waste disposal, see section 13 of the SDS.
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling:	Avoid prolonged exposure. Observe good industrial hygiene practices.
7.2	Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3	Specific end use(s):	Not available.
050	TION 0. Experime controlo/nerconal protoco	-4io -

SECTION 8: Exposure controls/personal protection

 8.1 Control parameters Occupational exposure limits
EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Туре	Value
Ethanol, 2-(2-butoxyethoxy)- (CAS 112-34-5)	STEL	101,2 mg/m3
	TWA	15 ppm 67,5 mg/m3 10 ppm

Biological limit values:

No biological exposure limits noted for the ingredient(s).



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Recommended monitoring procedures: Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Components	Туре	Route	Value	Form
Ethanol, 2-(2- butoxyethoxy)- (CAS 112-34-5)	Industry	Dermal	20 mg/kg/day	Long-term exposure, systemic effects
		Inhalation	67,5 mg/m3	Long-term exposure, systemic effects
Ethanol, 2,2'- (methylimino)bis- (CAS 105-59-9)	Industry	Dermal	19 mg/m3	Long-term exposure, systemic effects
``````````````````````````````````````		Inhalation	26 mg/m3	Long-term exposure, systemic effects

### Predicted no effect concentrations (PNECs)

Components	Туре	Route	Value	Form
Ethanol, 2-(2-	Industry	Not applicable	200 mg/l	Sewage plant
butoxyethoxy)-		Soil	0,4 mg/kg/day	Soil
(CAS 112-34-5)		Water	4 mg/kg/day	Freshwater sediment
. ,		Water	0,4 mg/kg/day	Seawater Sediment
		Water	3,9 mg/l	Seawater
		Water	1 mg/l	Freshwater
Ethanol, 2,2'-	Industry	Water	0,89 mg/kg/day	Freshwater sediment
(methylimino)bis-		Water	0,11 mg/kg/day	Saltwater sediment
(CAS 105-59-9)		Water	0,1 mg/l	Freshwater
. ,		Water	0,013 mg/l	Saltwater

#### 8.2 Exposure controls:

Appropriate engineering controls:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as p	personal protective equipment
General information:	Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin protection	
- Hand protection:	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Recommendation: 706 Lapren (KCL, Germany) with a layer thickness of at least 0.6 mm. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the



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	glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- Other:	Wear suitable protective clothing.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards:	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls:	Environmental manager must be informed of all major releases.

# SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chem

Appearance     Physical state:   Liquid.     Colour:   Light yellow.     Odour threshold:   Not available.     pH:   9,6 DIN 51369     Melting point/freezing point:   Not available.     Initial boiling point and boiling   Not available.     Initial boiling point and boiling   Not available.     range:   Flash point:   Not available.     Flash point:   Not available.     Evaporation rate:   Not available.     Flammability (solid, gas):   Not available.     Upper/lower flammability or explosive limits   Flammability limit - lower (%):     Flammability limit - lower (%):   Not available.     Vapour pressure:   Not available.     Vapour density:   Not available.     Vapour density:   Not available.     Solubility (water)   Soluble.     Solubility (water)   Soluble.     Solubility (other):   Not available.     Partition coefficient   Not available.     (n-octanol/water):   Not available.     Auto-ignition temperature:   Not available.     Viscosity:   Not available.     Exp	9.1	Information on basic physical and chemical properties	
Colour:Light yellow.Odour:Mild.Odour threshold:Not available.pH:9,6 DIN 51369Melting point/freezing point:Not available.Initial boiling point and boilingNot available.Initial boiling point and boilingNot available.range:Flash point:Flash point:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Upper/lower flammability or explosive limitsFlammability limit - lower (%):Not available.Flammability limit - lower (%):Not available.Vapour pressure:Not available.Vapour density:Not available.Vapour density:Not available.Solubility (water)Solubile.Solubility (water):Not available.Partition coefficientNot available.(n-octanol/water):Not available.Auto-ignition temperature:Not available.Viscosity:Not available.Viscosity:Not available.Explosive properties:Not explosive.Oxidising properties:Not explosive.Oxidising properties:Not oxidising.9.2Other information Density:1052,00 kg/m3 DIN 51757		Appearance	
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9.2 Other information Density: 1052,00 kg/m3 DIN 51757			•
Density: 1052,00 kg/m3 DIN 51757		Oxidising properties:	Not oxidising.
	9.2	Other information	
		Density:	1052,00 kg/m3 DIN 51757
Kinematic viscosity: 6 min2/s Div 55016		Kinematic viscosity:	6 mm2/s DIN 53018



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10.1	Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2	Chemical stability:	Material is stable under normal conditions.
10.3	Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
10.4	Conditions to avoid:	High temperatures. Contact with incompatible materials.
10.5	Incompatible materials:	Strong oxidising agents.
10.6	Hazardous decomposition products:	No hazardous decomposition products are known.
SECT	ION 11: Toxicological information	
	General information:	Occupational exposure to the substance or mixture may cause adverse effects.
	Information on likely routes of exposure Inhalation:	Prolonged inhalation may be harmful.

Inhalation:Prolonged inhalation may be harmful.Skin contact:No adverse effects due to skin contact are expected.Eye contact:Direct contact with eyes may cause temporary irritation.Ingestion:May cause discomfort if swallowed. However, ingestion<br/>is not likely to be a primary route of occupational<br/>exposure.Symptoms:Exposure may cause temporary irritation, redness, or

discomfort.

#### 11.1 Information on toxicological effects

Components	Species	Test results	
Ethanol, 2-(2-butoxyethoxy)- (CAS 112-34-5)			
Acute			
Dermal			
Liquid			
LD50	Rabbit	2764 mg/kg	
Oral			
Liquid			
LD50	Mouse	2410 mg/kg	
Ethanol, 2,2'-(methylimino)bis- <u>Acute</u> <b>Dermal</b>	(CAS 105-59-9)		
Liquid LD50 Oral	Rabbit	5990 mg/kg	
Liquid LD50	Rat	4680 mg/kg	

* Estimates for product may be based on additional component data not shown.



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	Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
	Serious eye damage/eye irritation:	Based on available data, the classification criteria are not met.
	Respiratory sensitisation:	Based on available data, the classification criteria are not met.
	Skin sensitisation:	Based on available data, the classification criteria are not met.
	Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
	Carcinogenicity:	Based on available data, the classification criteria are not met.
	Reproductive toxicity:	Based on available data, the classification criteria are not met.
	Specific target organ toxicity - single exposure:	Based on available data, the classification criteria are not met.
	Specific target organ toxicity - repeated exposure:	Based on available data, the classification criteria are not met.
	Aspiration hazard:	Based on available data, the classification criteria are not met.
	Mixture versus substance information:	No information available.
	Other information:	Not available.
21	ΓΙΟΝ 12: Ecological information	
4		Depending evolution of the strength of the str

SECTION 12: E 12.1 Toxicity

Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Components		Species	Test results
Ethanol, 2-(2-but Aquatic Acute	oxyethoxy)- (CAS 1	12-34-5)	
Algae	EC50	Desmodesmus subspicatus (Scendesmus subspicatus)	> 100 mg/l, 72 hours
	NOEC	Desmodesmus subspicatus	> 100 mg/l, 96 hours
Crustacea	EC50	Daphnia magna	2840 mg/l, 24 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours
Ethanol, 2,2'-(me Acute	thylimino)bis- (CAS	5 <b>105-59-9)</b>	
Other Aquatic Acute	EC20	Activated sludge	> 1000 mg/l, 30 minutes
Algae	EC50	Algae	176 mg/l, 72 hours
Crustacea	EC50	Daphnia magna	233 mg/l, 48 hours



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	Fish	NOEC LC50	Crustacea Ide, silver or golden orfe (Leuciscus idus)	> 100 mg/l, 96 hours 1466 mg/l, 96 hours	
	* Estimates for product may be based on additional component data not shown.				
12.2	Persistence and degradability:		No data is available on the degradability of this product.		
12.3	Bioaccumulative poten Partition coefficient n-c Kow):		Ethanol, 2-(2-butoxyethoxy)-1		
	Bioconcentration facto	r (BCF):	Not available.		
12.4	Mobility in soil:		No data available.		
12.5	Results of PBT and vPr assessment:	/B	Not available.		
12.6	Other adverse effects:		No other adverse environmenta depletion, photochemical ozone endocrine disruption, global wa expected from this component.	e creation potential, arming potential) are	
SECT	FION 13: Disposal consid	lerations			
13.1	Waste treatment metho Residual waste:	ds	Dispose of in accordance with containers or liners may retain This material and its container safe manner (see: Disposal ins	some product residues. must be disposed of in a	
	Contaminated packagir	ng:	Since emptied containers may follow label warnings even afte Empty containers should be tal waste handling site for recyclin	r container is emptied. ken to an approved	
	EU waste code:		Wastes marked with an asteris hazardous waste pursuant to D 91/689/EEC on hazardous was 12 01 10 *: synthetic machining 12 01 09 *: machining emulsion halogens. The Waste code sho discussion between the user, the waste disposal company.	Directive Ste. g oils. Ins and solutions free of buld be assigned in	
	Disposal methods/info	mation:	Collect and reclaim or dispose licensed waste disposal site.	in sealed containers at	
	Special precautions:		Dispose in accordance with all	applicable regulations.	
SECTION 14: Transport information					
	ADR:		Not regulated as dangerous go	oods.	
	RID:		Not regulated as dangerous go	oods.	



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	ADN:	Not regulated as dangerous goods.		
	IATA:	Not regulated as dangerous goods.		
	IMDG:	Not regulated as dangerous goods.		
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Not established.		
SECT	SECTION 15: Regulatory information			
15.1	Safety, health and environmental regulations/legislation specific for the substance or mi EU regulations			
	Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended:	Not listed.		
	Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended:	Not listed.		
	Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended:	Not listed.		
	Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended:	Not listed.		
	Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended:	Not listed.		
	Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended:	Not listed.		
	Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended:	Not listed.		
	Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA: Authorisations	Not listed.		
	Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended:	Not listed.		

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According to Regulation (EC) No. 1272/2008 Revision: 18.05.2017 Version nu SilaMill Tec Liquid	vision: 18.05.2017 Version number: 1,0 Printing date: 12.12.202	
Restrictions on use Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended:	Ethanol, 2-(2-butoxyethoxy)- (CAS 112-34-5)	
Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended:	Not listed.	
Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended:	Not listed.	
Other EU regulations Directive 2012/18/EU on major accident hazards involving dangerous substances:	Not listed.	
Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended:	Ethanol, 2-(2-butoxyethoxy)- (CAS 112-34-5) Ethanol, 2,2'-(methylimino)bis- (CAS 105-59-9)	
Directive 94/33/EC on the protection of young people at work, as amended	Not listed.	
Other regulations:	The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.	
National regulations:	Follow national regulation for work with chemical agents.	
15.2 Chemical safety assessment:	No Chemical Safety Assessment has been carried out.	
SECTION 16: Other information		
List of abbreviations:	Not available.	
References:	Not available.	
Information on evaluation method leading to the classification of mixture:	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.	
Full text of any H-statements not written in full under Sections 2 to 15:	H319 Causes serious eye irritation.	
Revision information:	None.	
Training information:	Follow training instructions when handling this material.	



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### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. The editor cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

Approved.

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