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# **VIRKON LSP**

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SECTIO	N 1: Identification o	f the substance/	mixture and of the company/undertaking
1.1 Prod	uct identifier		
Trac	le name	: VIRKON LSI	P
Proc	luct code	: 57804807	
1.2 Relev	vant identified uses of	the substance or	mixture and uses advised against
	of the Sub- ce/Mixture	: Disinfectants	3
1.3 Detai	ils of the supplier of th	e safety data shee	et
	plier	: Antec Interna Windham Ro Chilton Indus	ational Limited oad strial Estate
Tele	phone	: +492218885	Sudbury / Suffolk, United Kingdom 2288
	ail address of person onsible for the SDS	: infosds@lan	xess.com
	<b>gency telephone num</b> 0 190 6777. National Ch		Centre

# SECTION 2: Hazards identification

# 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Sub-category 1C	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

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Hazar	rd pictograms		!
Signa	l word	: Danger	
Hazar	d statements	H314 Causes H317 May ca H335 May ca	corrosive to metals. severe skin burns and eye damage. use an allergic skin reaction. use respiratory irritation. aquatic life with long lasting effects.
Preca	utionary statements	P273 Avoid re	reathing dust/ fume/ gas/ mist/ vapours/ spray. elease to the environment. rotective gloves/ protective clothing/ eye protec- ction.
		P304 + P340 + air and keep co POISON CENT P305 + P351 + with water for so sent and easy to POISON CENT P333 + P313 advice/ attention P362 + P364 before reuse.	<ul> <li>miting.</li> <li>P353 IF ON SKIN (or hair): Take off immedi- inated clothing. Rinse skin with water.</li> <li>P310 IF INHALED: Remove person to fresh mfortable for breathing. Immediately call a ER/doctor.</li> <li>P338 + P310 IF IN EYES: Rinse cautiously everal minutes. Remove contact lenses, if pre- o do. Continue rinsing. Immediately call a ER/doctor.</li> <li>If skin irritation or rash occurs: Get medical</li> </ul>

Hazardous components which must be listed on the label:

acetic acid Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. chlorocresol biphenyl -2-ol

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.





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## **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
acetic acid	64-19-7 200-580-7 607-002-00-6 01-2119475328-30	Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 20 - < 25
Benzenesulfonic acid, 4-C10-13- sec-alkyl derivs.	85536-14-7 287-494-3 01-2119490234-40	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 20 - < 25
chlorocresol	59-50-7 200-431-6 604-014-00-3 01-2119938953-25	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335; Respiratory system Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor Aquatic Acute: 1	>= 10 - < 20
biphenyl -2-ol	90-43-7 201-993-5 604-020-00-6 01-2119511183-53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335; Respiratory system Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Aquatic Chronic: 1	>= 10 - < 20
tetrasodium ethylene diamine tetraacetate	64-02-8 200-573-9 607-428-00-2 01-2119486762-27	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT RE 2; H373	>= 1 - < 3

### Specific Concentration limits (Regulation EC) No 1272/2008)

Chemical name	CAS-No. EC-No.	Classification	Concentration (%)
acetic acid	64-19-7	Skin Corr.1A; H314	>= 90 %
	200-580-7	Skin Corr.1B; H314	25 - < 90 %



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			Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Corr.1A; H314 Skin Corr.1B; H314 Skin Irrit.2; H315 Eye Irrit.2; H319	10 - < 25 % 10 - < 25 %

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul- ty. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tis- sue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

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

None known.

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

Treatment : No special measures required.



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SECTIO	N 5: Firefighting mea	sur	es	
5 1 Extin	guishing media			
	able extinguishing media	:		se water/water spray/water jet/carbon diox- lcohol resistant foam/chemical powder for
Unsuitable extinguishing media		:	None known.	
5.2 Spec	ial hazards arising from	n the	e substance or m	iixture
Specific hazards during fire- fighting		:	Do not allow rur courses.	-off from fire fighting to enter drains or water
Hazardous combustion prod- ucts		:	Carbon dioxide Carbon monoxid Halogenated co Nitrogen oxides Metal oxides	le mpounds
5.3 Advie	ce for firefighters			
	cial protective equipment irefighters	:	and self-contain face-piece operation	ould wear appropriate protective equipment ed breathing apparatus (SCBA) with a full ated in positive pressure mode. If potential for refer to Section 8 for specific personal protec-
Furt	her information	:	must not be disc	nated fire extinguishing water separately. This charged into drains. d contaminated fire extinguishing water must

### **SECTION 6: Accidental release measures**

#### 

### Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

be disposed of in accordance with local regulations.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Neutralize with chalk, alkali solution or ammonia.
		Soak up with inert absorbent material (e.g. sand, silica gel,







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acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8. For disposal considerations see section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling	:	<ul> <li>Avoid formation of aerosol.</li> <li>Do not breathe vapours/dust.</li> <li>Avoid exposure - obtain special instructions before use.</li> <li>Avoid contact with skin and eyes.</li> <li>For personal protection see section 8.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> <li>To avoid spills during handling keep bottle on a metal tray.</li> <li>Dispose of rinse water in accordance with local and national regulations.</li> <li>Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.</li> <li>Do not re-use empty containers.</li> </ul>
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

#### 7.2 Conditions for safe storage, including any incompatibilities

contaitions for sale storage, moraling any moompatismices					
Requirements for storage areas and containers	:	Protect from frost.			
		Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.			
Advice on common storage	:	Do not store near acids.			
Further information on stor- age stability	:	No decomposition if stored and applied as directed.			

7.3 Specific end use(s)

Specific use(s)		No doto ovollobio
SDECIUC USE(S)	-	No data available
	-	





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### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
acetic acid	64-19-7	TWA	10 ppm	91/322/EEC			
			25 mg/m3				
Further information		Indicative, In the Annex to Directive 91/322/EEC, the references to acetic					
	acid, calcium	acid, calcium dihydroxide, lithium hydride and nitrogen monoxide are deleted					
		with effect from 21 August 2018					
		TWA	10 ppm	2017/164/EU			
			25 mg/m3				
Further information	Indicative						
		STEL	20 ppm	2017/164/EU			
			50 mg/m3				
Further information	Indicative						

#### 8.2 Exposure controls

#### Engineering measures

This information is not available.

#### Personal protective equipment

Eye protection	:	Tightly fitting safety goggles or Face-shield
		Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Hand protection Material Wearing time	:	Polychloroprene - CR < 60 min
Material Wearing time	:	Polyvinyl chloride - PVC < 60 min
Material Wearing time	:	Nitrile rubber - NBR < 60 min
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamina- tion with product change the gloves immediately and dispose of them according to relevant national and local regulations



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Skin	and body protection	:	Wear suitable pro	tective clothing.
				ng tection according to the amount and con- dangerous substance at the work place.
Resp	iratory protection	:	In the case of vap proved filter.	oour formation use a respirator with an ap-
Filter	type	:	Recommended F	ilter type:
			Combined inorga and organic vapo	nic and acidic gas/vapour, ammonia/amines ur type (ABEK)

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid, clear
Colour	:	brown
Odour	:	acidic
Odour Threshold	:	No data available
рН	:	2,5 - 3,0 Concentration: 1 %
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 104 °C Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1,09 g/cm <sup>3</sup> (20 °C)



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	Solubil	ity(ies)	:	No data availabl	e	
	Partitio octano	n coefficient: n- I/water	:	No data availabl	2	
	Ignitior	temperature	:	No data available	9	
	Decom	position temperature	:	No data available	9	
	Viscos	ity	:	No data available	9	
	Explos	ive properties	:	No data available	9	
	Oxidizi	ng properties	:	No data availabl	9	
9.2	Other in	nformation				
	Metal o	corrosion rate	:	Corrosive to met	als	
SEC	SECTION 10: Stability and reactivity					
10.1	Reacti No dec	<b>vity</b> composition if stored ar	nd ap	oplied as directed.		
10.2	10.2 Chemical stability					

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions					
Hazardous reactions	:	No decomposition if stored and applied as directed.			
<b>10.4 Conditions to avoid</b> Conditions to avoid	:	No data available			
<b>10.5 Incompatible materials</b> Materials to avoid	:	Metals Strong acids and strong bases			

### **10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Product:

Acute oral toxicity

: Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method



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Acute	inhalation toxicity	Exposure tir Test atmosp	y estimate: > 20 mg/l ne: 4 h here: vapour culation method
Acute	e dermal toxicity		y estimate: > 2.000 mg/kg culation method
Com	oonents:		
aceti	c acid:		
Acute	oral toxicity	: LD50 (Rat):	3.310 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): Exposure tir Test atmosp	
Acute	e dermal toxicity	: LD50 (Rabb	it): 1.060 mg/kg
Benz	enesulfonic acid, 4-0	C10-13-sec-alkyl de	erivs.:
Acute	oral toxicity		nale and female): 1.470 mg/kg CD Test Guideline 401
Acute	dermal toxicity		> 5.000 mg/kg CD Test Guideline 402 ktrapolation according to Regulation (EC) No.
chlor	ocresol:		
Acute	oral toxicity		y estimate: 500 mg/kg nverted acute toxicity point estimate
			nale): 1.830 mg/kg CD Test Guideline 401
Acute	inhalation toxicity	Exposure tir Test atmosp Method: OE Assessment tion toxicity	ale and female): > 2,871 mg/l ne: 4 h here: dust/mist CD Test Guideline 403 :: The substance or mixture has no acute inhala- ighest producible concentration.
Acute	dermal toxicity		y estimate: 1.100 mg/kg nverted acute toxicity point estimate
			nale and female): > 2.000 mg/kg CD Test Guideline 402



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-	nenyl -2-ol:					
Acu	Acute oral toxicity		: LD50 (Rat, male and female): 2.733 mg/kg Method: OECD Test Guideline 401 GLP: yes			
Acu	te inhalation toxicity	:	LC0 (Rat, male and female): > 0,036 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhala tion toxicity Remarks: Highest producible concentration.			
Acu	te dermal toxicity	:	Method: OECD T GLP: yes	and female): > 5.000 mg/kg est Guideline 402 blation according to Regulation (EC) No.		
tetra	asodium ethylene diami	ine f	tetraacetate:			
Acu	te oral toxicity	:	LD50 (Rat): 1.658	3 mg/kg		
			Acute toxicity esti Method: Converte	mate: 500 mg/kg ed acute toxicity point estimate		
Acu	te inhalation toxicity	:	Assessment: The short term inhalat	component/mixture is moderately toxic after ion.		
Skir	n corrosion/irritation					

#### **Components:**

acetic acid:

Species: Rabbit Method: OECD Test Guideline 404 Result: Causes severe burns.

## Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Species: Rabbit Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

#### chlorocresol:

Species: Rabbit Result: No skin irritation

**biphenyl -2-ol:** Species: Rabbit





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Method: OECD Test Guideline 404 Result: Irritating to skin.

#### tetrasodium ethylene diamine tetraacetate:

Species: Rabbit Result: No skin irritation

#### Serious eye damage/eye irritation

#### Components:

acetic acid:

Species: Rabbit Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes.

#### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Species: Rabbit Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes.

#### chlorocresol:

Species: Rabbit Result: Risk of serious damage to eyes.

#### biphenyl -2-ol:

Species: Rabbit Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes.

#### tetrasodium ethylene diamine tetraacetate:

Species: Rabbit Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes.

#### Respiratory or skin sensitisation

#### **Components:**

**acetic acid:** Assessment: Did not cause sensitisation on laboratory animals.

#### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: Did not cause sensitisation on laboratory animals.





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### chlorocresol:

Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: The product is a skin sensitiser, sub-category 1B.

#### biphenyl -2-ol:

Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation. GLP: no

#### tetrasodium ethylene diamine tetraacetate:

Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: Did not cause sensitisation on laboratory animals.

#### Germ cell mutagenicity

#### **Components:**

#### acetic acid:

Genotoxicity in vitro :	Test system: Bacteria Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative			
Genotoxicity in vivo :	Species: Mammalian-Animal Application Route: Inhalation Method: OECD Test Guideline 477 Result: positive			
	Test Type: Cytogenetic assay Species: Mammalian-Animal Result: positive			
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:				

# Genotoxicity in vitro : Test system: Bacteria Metabolic activation: with and without metabolic activation Method: Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test) Result: negative

Genotoxicity in vivo : Species: Mammalian-Animal Result: negative

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chlor	ocresol:		
Genotoxicity in vitro			ctivation: with and without metabolic activation CD Test Guideline 471
		Metabolic ac	: Mammalian-Animal ctivation: with and without metabolic activation CD Test Guideline 476 ttive
			: Mammalian-Animal CD Test Guideline 482 tive
Geno	toxicity in vivo		Route: Intraperitoneal injection CD Test Guideline 474
biphe	enyl -2-ol:		
Genotoxicity in vitro		Metabolic ac	: Mammalian-Animal ctivation: with and without metabolic activation CD Test Guideline 476 ntive
			ctivation: with and without metabolic activation CD Test Guideline 471
		Metabolic ac	: Mammalian-Animal ctivation: with and without metabolic activation CD Test Guideline 473 ttive
Geno	toxicity in vivo	: Species: Mo Application F Result: nega	Route: Oral
		Species: Ra Application F	Route: Oral CD Test Guideline 474

### tetrasodium ethylene diamine tetraacetate:



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Test system: Bacteria Metabolic activation: with and without metabolic activation Result: negative

#### Carcinogenicity

#### Components:

#### acetic acid:

Species: Rabbit Application Route: Oral Exposure time: 13 month(s) Result: negative

#### chlorocresol:

Species: Rat, (male and female) Application Route: Oral Exposure time: 104 weeks NOAEL: 558,9 Method: OECD Test Guideline 453

#### biphenyl -2-ol:

Species: Rat, (male) Application Route: Oral Exposure time: 2 Years Dose: 200 mg/kg body weight Method: OECD Test Guideline 453 Result: negative GLP: yes

Species: Rat, (female) Application Route: Oral Exposure time: 2 Years Dose: >= 647 mg/kg body weight Method: OECD Test Guideline 453 Result: negative GLP: yes

#### **Reproductive toxicity**

#### **Components:**

#### acetic acid:

Effects on fertility	:	Species: Rabbit, female Application Route: Oral Dose: 16000 milligram per kilogram Symptoms: No known significant effects or critical hazards.
Effects on foetal develop- ment	:	Species: Rabbit, female Application Route: Oral Dose: 1600 milligram per kilogram



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			Single Treatment: 18 d dverse effects
chlo	rocresol:		
Effects on fertility		Application F General Tox Fertility: 1,04	, male and female Route: Oral icity F1: NOAEL: 247,8 mg/kg body weight 3 mg/kg body weight CD Test Guideline 416
	Effects on foetal develop- ment		r, male and female Route: Oral tal Toxicity: NOAEL: 100 mg/kg body weight CD Test Guideline 414
biph	enyl -2-ol:		
Effec	ts on fertility	Application F Duration of S Fertility: NOA Method: OE0	Single Treatment: 25 Weeks AEL: >= 500 mg/kg body weight CD Test Guideline 416 Ifects on fertility and early embryonic develop-
Effec ment	ts on foetal develop-	Developmen	

### STOT - single exposure

#### **Components:**

#### chlorocresol:

Assessment: May cause respiratory irritation.

#### biphenyl -2-ol:

Assessment: May cause respiratory irritation.

### STOT - repeated exposure

#### **Components:**

#### tetrasodium ethylene diamine tetraacetate:

Exposure routes: Inhalation Assessment: May cause damage to organs through prolonged or repeated exposure.





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### Repeated dose toxicity

### Components:

#### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.:

Species: Rat, male and female NOAEL: 40 mg/kg Application Route: Oral GLP: no Remarks: Subchronic toxicity

Species: Rat, male and female LOAEL: 115 mg/kg Application Route: Oral GLP: no Remarks: Subchronic toxicity

#### chlorocresol:

Species: Rat, male NOAEL: 120 mg/kg Application Route: Oral Exposure time: 90 Days Number of exposures: daily Method: OECD Test Guideline 408 Remarks: Subchronic toxicity

Species: Rat, male and female NOAEL: 500 mg/kg Application Route: Dermal Exposure time: 90 Days Number of exposures: daily Method: OECD Test Guideline 411 Remarks: Subchronic toxicity

#### biphenyl -2-ol:

Species: Rat, male LOAEL: 200 mg/kg Application Route: Oral Exposure time: 2 yr Method: OECD Test Guideline 453 GLP: yes Remarks: Chronic toxicity

Species: Rat, female LOAEL: 647 mg/kg Application Route: Oral Exposure time: 2 yr Method: OECD Test Guideline 453 GLP: yes Remarks: Chronic toxicity





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Species: Rat, male and female NOAEL: >= 1.000 mg/kg Application Route: Dermal Exposure time: 21 d Method: OECD Test Guideline 410 GLP: yes Remarks: Subacute toxicity

#### **Further information**

### Product:

Remarks: No data available

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Components:		
acetic acid:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 75 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 300,82 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	:	EC50 (Skeletonema costatum (marine diatom)): > 300,82 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 1.000 mg/l Exposure time: 30 min
Benzenesulfonic acid, 4-C1	0-1:	3-sec-alkyl derivs.:
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,67 mg/l Exposure time: 96 h Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2,9 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Fresh water
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): 29 mg/l Exposure time: 96 h Remarks: Fresh water
		NOEC (Pseudokirchneriella subcapitata (microalgae)): 0,5 mg/l Exposure time: 96 h

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				Remarks: Fresh v	vater
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC: 1 mg/l Exposure time: 28 Species: Lepomis Method: OECD Te Remarks: Fresh v	macrochirus (Bluegill sunfish) est Guideline 204
ä		v to daphnia and other invertebrates (Chron- ty)	:	NOEC: 1,18 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te Remarks: Fresh v	magna (Water flea) est Guideline 211
	chloro	cresol:			
-	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0,917 mg/l 3 h
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): 2,29 mg/l 3 h 2 (Aquatic Invertebrate Acute Toxicity Test)
-	Toxicity	v to algae	:	EC50 (Desmodes Exposure time: 72 Method: OECD Te	
				NOEC (Desmode Exposure time: 72 Method: OECD Te	
	M-Fact icity)	or (Acute aquatic tox-	:	1	
-	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0,15 mg/l Exposure time: 28 Species: Oncorhy Method: OECD Te	nchus mykiss (rainbow trout)
ä		to daphnia and other invertebrates (Chron- ty)	:	0,32 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
I	biphen	yl -2-ol:			
	-	to fish	:	LC50 (Danio rerio Exposure time: 96 GLP: yes	(zebra fish)): 4,5 mg/l S h



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			Remarks: Fresh v	vater	
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 2,7 mg/l Exposure time: 48 h Remarks: Fresh water		
Toxic	Toxicity to algae		EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te GLP: yes Remarks: Fresh w	est Guideline 201	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te GLP: yes Remarks: Fresh w	est Guideline 201	
Toxic icity)	ty to fish (Chronic tox-	:	NOEC: 0,036 mg/ Exposure time: 21 Species: Pimepha GLP: yes Remarks: Fresh w	Days Iles promelas (fathead minnow)	
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC: 0,009 mg/ Exposure time: 21 Species: Daphnia Method: OECD Te GLP: yes Remarks: Fresh v	Days magna (Water flea) est Guideline 211	
M-Fac toxicit	ctor (Chronic aquatic y)	:	1		
tetras	odium ethylene diamir	ne t	etraacetate:		
Toxic	ty to fish	:	LC50 (Lepomis m Exposure time: 96 Remarks: Fresh v		
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: ISO 6341 Remarks: Fresh w		
Toxic	ty to algae	:	ErC50 (Desmodes Exposure time: 72 Remarks: Fresh w		
			NOEC (Desmode Exposure time: 72	smus subspicatus (green algae)): 100 mg/l ? h	



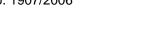
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				Remarks: Fresh w	/ater
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: > 25,7 mg Exposure time: 35 Species: Danio re Method: OECD Te Remarks: Fresh w	i Days rio (zebra fish) est Guideline 210
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 25 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te Remarks: Fresh w	magna (Water flea) est Guideline 211
12.2	Persist	ence and degradabil	ity		
	<u>Compo</u>	onents:			
	acetic a Biodegr	<b>acid:</b> adability	:	Result: Readily bio Biodegradation: 9 Exposure time: 5	95 %
	Benzer	nesulfonic acid, 4-C1	<b>D-1</b> 3	s-sec-alkyl derivs.	:
	Biodegr	adability	:	Result: Readily bid Biodegradation: 9 Exposure time: 28 Method: OECD Te GLP: yes	94 %
	chlorod	cresol:			
	Biodegr	adability	:	Result: Readily bid Biodegradation: 8 Exposure time: 28 Method: OECD Te	35 %
	biphen	yl -2-ol:			
	Biodegr	adability	:	Test Type: aerobic Result: Readily bid Biodegradation: 7 Exposure time: 28 Method: OECD Te GLP: yes	odegradable. /0,8 - 75,7 %
		dium ethylene diamii	ne t		
	Biodegr	adability	:	Result: Not readily Biodegradation: 1 Exposure time: 28 Method: OECD Te	0%



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12.3 Bioa	ccumulative potential				
<u>Com</u>	ponents:				
aceti	c acid:				
	tion coefficient: n- nol/water	:	log Pow: -0,17		
Benz	zenesulfonic acid, 4-C1	0-13	-sec-alkyl deriv	's.:	
	tion coefficient: n- nol/water	:	log Pow: 2,2 Method: OECD	Test Guideline 123	
chlo	rocresol:				
	tion coefficient: n- nol/water	:	log Pow: 2,73 ( pH: 7,2 Method: OECD	25 °C) Test Guideline 107	
biph	enyl -2-ol:				
-	ccumulation	:	Bioconcentratio	n factor (BCF): 22	
Partition coefficient: n- octanol/water		:	log Pow: 3,18 Method: OECD Test Guideline 107		
tetra	sodium ethylene diam	ine t	etraacetate:		
	ccumulation	:		n factor (BCF): 1,8	
12.4 Mob	ility in soil				
<u>Com</u>	ponents:				
biph	enyl -2-ol:				
	ibution among environ- al compartments	:	log Koc: 2,4 - 2	,6	
12.5 Resi	ults of PBT and vPvB a	sses	ssment		
Prod	luct:				
Asse	ssment	:	to be either per	/mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of	
12.6 Othe	er adverse effects				
Prod	luct:				
Addit matic	tional ecological infor- on	:		tal hazard cannot be excluded in the event of handling or disposal.	
			22 / 28	A company of th	



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# **VIRKON LSP**



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		Toxic to aquati	c life with long lasting effects.
SECTION	N 13: Disposal con	siderations	
13.1 Was	te treatment method	S	
Product		courses or the Do not contam cal or used cor	inate ponds, waterways or ditches with chemi-
Contaminated packaging		•	ng contents. unused product. empty containers.

# **SECTION 14:** Transport information

### 14.1 UN number

	ADN	:	UN 3265
	ADR	:	UN 3265
	RID	:	UN 3265
	IMDG	:	UN 3265
	ΙΑΤΑ	:	UN 3265
14.	2 UN proper shipping name		
	ADN	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ACETIC ACID, ALKYLBENZENE SULFONIC ACID)
	ADR	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ACETIC ACID, ALKYLBENZENE SULFONIC ACID)
	RID	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ACETIC ACID, ALKYLBENZENE SULFONIC ACID)
	IMDG	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ACETIC ACID, ALKYLBENZENE SULFONIC ACID)
	ΙΑΤΑ	:	Corrosive liquid, acidic, organic, n.o.s. (ACETIC ACID, ALKYLBENZENE SULFONIC ACID)
14.	3 Transport hazard class(es)		
	ADN	:	8
	ADR	:	8
	RID	:	8
	IMDG	:	8
	ΙΑΤΑ	:	8

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ng group			
ication Code d Identification Number	:	III C3 80 8	
ication Code d Identification Number		III C3 80 8	
I restriction code	:	E	
ication Code d Identification Number	:	III C3 80 8	
	: :	III 8	
g instruction (cargo t) g group	:	856: 60,00 L III 8	
	02.07.2018 ng group ication Code d Identification Number g group ication Code d Identification Number I restriction code ng group ication Code d Identification Number g group ication Code d Identification Number g group ication Code d Identification Number g group ication Code d Identification Number g group	ng group ication Code d Identification Number ication Code ication	ng group g group g group d Identification Number g group fication Code d Identification Number fication Code d Identification Number H restriction code g group fication Code d Identification Number H restriction code g group fication Code d Identification Number H Restriction code H Restriction Code H Restriction Number H Restriction Code H Re



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# **VIRKON LSP**



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Pack ger a	( <b>Passenger)</b> ing instruction (passen- ircraft) ing group Is	: 852: 5,00 L : III : 8 :	
14.5 Envi	ronmental hazards		
<b>ADN</b> Envir	onmentally hazardous	: yes	
<b>ADR</b> Envir	onmentally hazardous	: yes	
<b>RID</b> Envir	onmentally hazardous	yes	
<b>IMDC</b> Marir	<b>G</b> ne pollutant	: yes	
	( <b>Passenger)</b> onmentally hazardous	: yes	
	(Cargo)	· Ves	

Environmentally hazardous : yes



according to Regulation (EC) No. 1907/2006



# **VIRKON LSP**

 Version
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 SDS Number:
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 Image: GB / EN(GB)

### 14.6 Special precautions for user / Additional advice

Hazard statements

: Slightly corrosive. Environmentally hazardous substance. Keep away from foodstuffs, acids and alkalis.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pol- lutants	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parlian	nent	and of the Council or

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL	200 t	500 t
	HAZARDS		

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 15.2 Chemical safety assessment

not applicable

according to Regulation (EC) No. 1907/2006

# VIRKON LSP



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### **SECTION 16: Other information**

Full text of H-Statements	
H226 :	Flammable liquid and vapour.
H302 :	Harmful if swallowed.
H312 :	Harmful in contact with skin.
H314 :	Causes severe skin burns and eye damage.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H332 :	Harmful if inhaled.
H335 :	May cause respiratory irritation.
H373 :	May cause damage to organs through prolonged or repeated exposure if inhaled.
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.
Full text of other abbreviation	S
Acute Tox. :	Acute toxicity
Aquatic Acute :	Acute aquatic toxicity
Aquatic Chronic :	Chronic aquatic toxicity
Eye Dam. :	Serious eye damage
Eye Irrit. :	Eye irritation
Flam. Liq. :	Flammable liquids
Skin Corr. :	Skin corrosion
Skin Irrit. :	Skin irritation
Skin Sens. :	Skin sensitisation
STOT RE :	Specific target organ toxicity - repeated exposure
STOT SE :	Specific target organ toxicity - single exposure
2017/164/EU :	Commission Directive (EU) 2017/164 establishing a fourth list
	of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Direc- tives 91/322/EEC, 2000/39/EC and 2009/161/EU
91/322/EEC :	Europe. Commission Directive 91/322/EEC on establishing indicative limit values
2017/164/EU / STEL :	Short term exposure limit
	Limit Value - eight hours
91/322/EEC / TWA	Limit Value - eight hours
ATE = Acute Toxicity Estimate	

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Further information				
Classification of the	mixture:	Classification procedure:		
Met. Corr. 1	H290	Based on product data or assessment		
Skin Corr. 1C	H314	Calculation method		



# **VIRKON LSP**

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Eye [	Dam. 1	H318	Calculation method
Eye Dam. 1 Skin Sens. 1		H317	Calculation method
STOT SE 3 Aquatic Chronic 2		H335	Calculation method
Aqua	tic Chronic 2	H411	Calculation method

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACh)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.

