**AKEMI**<sup>®</sup>

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inting date 04.12.2020	Version number 4	Revision: 04.12.2020
SECTION 1: Identification of the	ອ substance/mixture and of the company/ເ	undertaking
· <u>1.1 Product identifier</u>		
· <u>Trade name:</u>	Algae_and_Mildew_Remover_Power	
· Article number:	10825, 10832, 10833, 10997, 10998	
· <u>UFI:</u> · <b>1.2 Relevant identified uses of</b>	ANT2-16SA-K014-0RJ9	
the substance or mixture and		
uses advised against	No further relevant information available.	
<u>Application of the substance / the</u> mixture	Cleaning agent/ Cleaner	
<ul> <li>1.3 Details of the supplier of the Manufacturer/Supplier:</li> </ul>	AKEMI chemisch technische Spezialfabrik	GmbH Tel. +49(0)911-64296
<u></u>	Lechstrasse 28	Fax. +49(0)911-64445
	D 90451 Nürnberg	e-mail info@akemi.d
· Further information obtainable		
from: • <b>1.4 Emergency telephone</b>	Laboratory	
number:	Product Safety Department AKEMI chemis	sch technische Spezialfabrik GmbH
	Tel. +49(0)911-64296-59	
	Reachable during the following office hours	
	Monday – Thursday from 07:30 a.m. to 16: Friday from 07:30 a.m. to 13:30 p.m.	:30 p.m.
	+44 (171) 635 91 91	
	National Poison Inform. Centre	
	Medical Toxicology Unit	
	Avalonley Road London SE14 5ER	
SECTION 2: Hazards identificat	London ŚE14 5ER	
2.1 Classification of the substa	London ŠE14 5ER ion nce or mixture	
• <b>2.1 Classification of the substa</b> • Classification according to Regula	London ŠE14 5ER ion <u>nce or mixture</u> ition (EC) No 1272/2008	
• <b>2.1 Classification of the substa</b> • Classification according to Regula • Met. Corr.1 H290 May be	London ŚE14 5ER ion <u>nce or mixture</u> <u>ition (EC) No 1272/2008</u> corrosive to metals.	
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Trade name: Algae	and	Mildew	Remover	Power

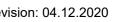
		(Contd. of page 1
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/factory protection/hearing protection.
	P301+P330+P3	331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
		353 IF ON SKIN (or hair): Take off immediately all contaminate clothing. Rinse skin with water [or shower].
	P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes
		Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
	P405	Store locked up.
	P406	Store in a corrosion resistant container / container with resistant inner liner.
	P501	Dispose of contents/container in accordance with loca regional/national/international regulations.
Additional information:	EUH031 Conta	ct with acids liberates toxic gas.
		o human health and the environment, comply with the instruction
2.3 Other hazards		
Results of PBT and vPvB asse	essment	
PBT:	Not applicable.	
· vPvB:	Not applicable.	

· Description:	Mixture: consisting of the following components.	
· Dangerous components:		
CAS: 7681-52-9	sodium hypochlorite, solution	1-5%
EINECS: 231-668-3 Index number: 017-011-00-1 Reg.nr.: 01-2119488154-34-xxxx	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; STOT SE 3, H335	
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27	sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314 Acute Tox. 4, H302	<1%
· Regulation (EC) No 648/2004 on	detergents / Labelling for contents	
chlorine-based bleaching agents		<5%
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	

#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

· General information:	Immediately remove any clothing soiled by the product.
	No special measures required.
<ul> <li>After inhalation:</li> </ul>	Supply fresh air; consult doctor in case of complaints.
· After skin contact:	Immediately rinse with water.
· <u>After eye contact:</u>	Rinse opened eye for several minutes under running water. Then consult a doctor.
· After swallowing:	Rinse out mouth and then drink plenty of water.
• 4.2 Most important symptoms	
and effects, both acute and	
delayed	No further relevant information available.
	(Contd. on page 3)
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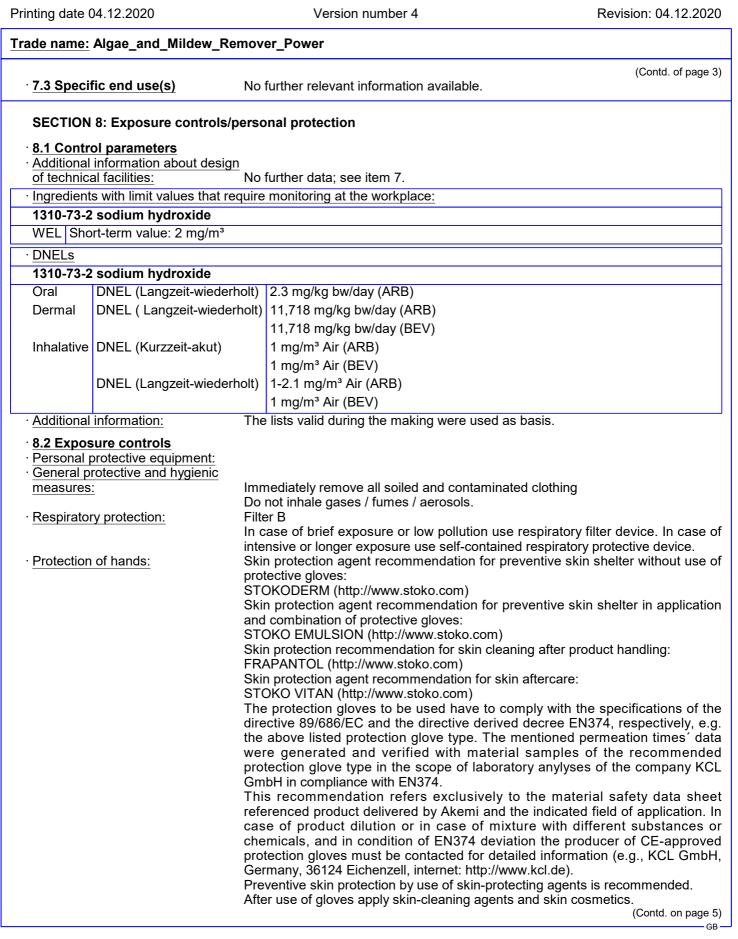
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nting date 04.12.2020	Version number 4	Revision: 04.12.20
ade name: Algae_and_Mildew_Re	mover_Power	
		(Contd. of page
4.3 Indication of any immediate		
medical attention and special		
treatment needed	No further relevant information available.	
SECTION 5: Firefighting measur	es	
5.1 Extinguishing media		
· Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires resistant foam.	with water spray or alcoh
<sup>•</sup> 5.2 Special hazards arising from		
the substance or mixture	Formation of toxic gases is possible during heating	or in case of fire.
	Hydrogen chloride (HCI)	
5.3 Advice for firefighters		
· Protective equipment:	Wear fully protective suit. Wear self-contained respiratory protective device.	
SECTION 6: Accidental release r	neasures	
<u>6.1 Personal precautions,</u>		
protective equipment and		
emergency procedures	Not required.	v water equiree
6.2 Environmental precautions:	Do not allow product to reach sewage system or an Inform respective authorities in case of seepage	
	system.	
	Dilute with plenty of water.	
6.2 Mothodo and motorial for	Do not allow to enter sewers/ surface or ground wat	ter.
• <u>6.3 Methods and material for</u> containment and cleaning up:	Absorb with liquid-binding material (sand, diator	mite acid binders univers
containment and cleaning up.	binders, sawdust).	
	Ensure adequate ventilation.	
6.4 Reference to other sections	No dangerous substances are released.	
	See Section 7 for information on safe handling.	
		n equinment
	See Section 8 for information on personal protection See Section 13 for disposal information.	n equipment.
SECTION 7: Handling and storad	See Section 13 for disposal information.	n equipment.
SECTION 7: Handling and storag	See Section 13 for disposal information.	n equipment.
7.1 Precautions for safe	See Section 13 for disposal information.	n equipment.
	See Section 13 for disposal information. ge Do not seal receptacles gas-tight. Ensure good ventilation/exhaustion at the workplace	
7.1 Precautions for safe handling	See Section 13 for disposal information. ge Do not seal receptacles gas-tight.	
• 7.1 Precautions for safe handling • Information about fire - and	See Section 13 for disposal information. ge Do not seal receptacles gas-tight. Ensure good ventilation/exhaustion at the workplace Prevent formation of aerosols.	
<ul> <li>7.1 Precautions for safe handling</li> <li>Information about fire - and explosion protection:</li> </ul>	See Section 13 for disposal information. ge Do not seal receptacles gas-tight. Ensure good ventilation/exhaustion at the workplace Prevent formation of aerosols. No special measures required.	
<ul> <li>7.1 Precautions for safe handling</li> <li>Information about fire - and explosion protection:</li> <li>7.2 Conditions for safe storage,</li> </ul>	See Section 13 for disposal information. ge Do not seal receptacles gas-tight. Ensure good ventilation/exhaustion at the workplace Prevent formation of aerosols. No special measures required.	
<ul> <li>7.1 Precautions for safe handling</li> <li>Information about fire - and explosion protection:</li> </ul>	See Section 13 for disposal information. ge Do not seal receptacles gas-tight. Ensure good ventilation/exhaustion at the workplace Prevent formation of aerosols. No special measures required.	
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<ul> <li>7.1 Precautions for safe handling</li> <li>Information about fire - and explosion protection:</li> <li>7.2 Conditions for safe storage,</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles:</li> </ul>	See Section 13 for disposal information. ge Do not seal receptacles gas-tight. Ensure good ventilation/exhaustion at the workplace Prevent formation of aerosols. No special measures required. including any incompatibilities Store in a cool location. Do not store together with acids.	
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<ul> <li>7.1 Precautions for safe handling</li> <li>Information about fire - and explosion protection:</li> <li>7.2 Conditions for safe storage, Storage:</li> <li>Requirements to be met by storerooms and receptacles:</li> <li>Information about storage in one common storage facility:</li> </ul>	See Section 13 for disposal information. ge Do not seal receptacles gas-tight. Ensure good ventilation/exhaustion at the workplace Prevent formation of aerosols. No special measures required. including any incompatibilities Store in a cool location. Do not store together with acids. Store away from metals. Protect from heat and direct sunlight.	
<ul> <li>7.1 Precautions for safe handling</li> <li>Information about fire - and explosion protection:</li> <li>7.2 Conditions for safe storage, Storage:</li> <li>Requirements to be met by storerooms and receptacles:</li> <li>Information about storage in one common storage facility:</li> <li>Further information about storage</li> </ul>	See Section 13 for disposal information. ge Do not seal receptacles gas-tight. Ensure good ventilation/exhaustion at the workplace Prevent formation of aerosols. No special measures required. including any incompatibilities Store in a cool location. Do not store together with acids. Store away from metals. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.	
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<ul> <li>7.1 Precautions for safe handling</li> <li>Information about fire - and explosion protection:</li> <li>7.2 Conditions for safe storage, Storage:</li> <li>Requirements to be met by storerooms and receptacles:</li> <li>Information about storage in one common storage facility:</li> <li>Further information about storage</li> </ul>	See Section 13 for disposal information. ge Do not seal receptacles gas-tight. Ensure good ventilation/exhaustion at the workplace Prevent formation of aerosols. No special measures required. including any incompatibilities Store in a cool location. Do not store together with acids. Store away from metals. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.	

### Safety data sheet

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according to 1907/2006/EC, Article 31



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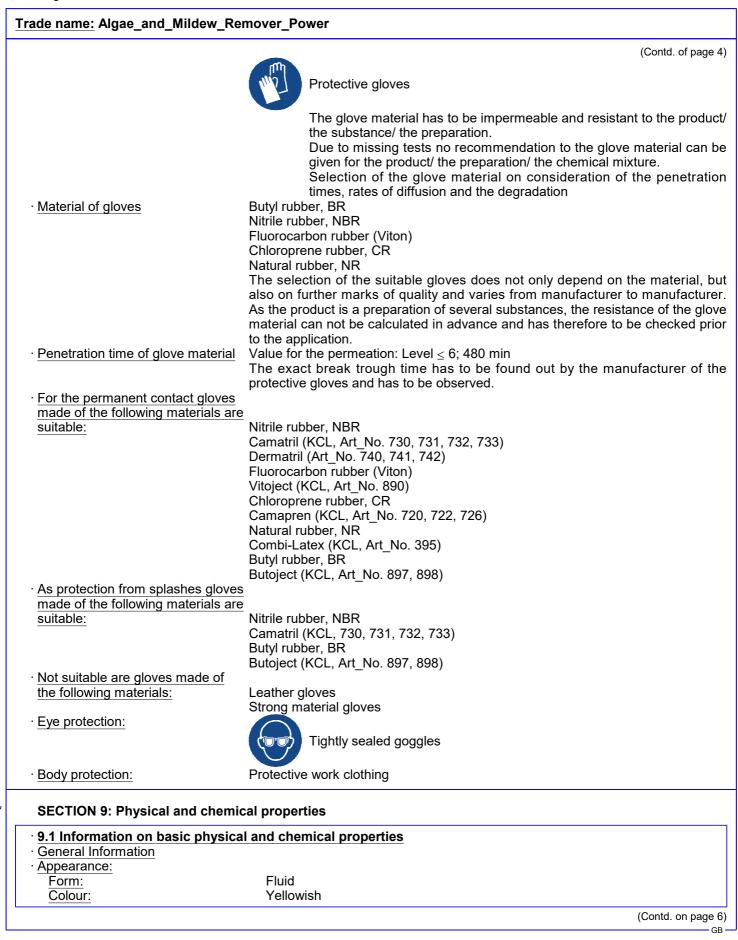
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### Trade name: Algae\_and\_Mildew\_Remover\_Power

	(Contd. of page 5)
· <u>Odour:</u> · <u>Odour threshold:</u>	Chlorine-like Not determined.
· pH-value at 20 °C:	11.5
<ul> <li><u>Change in condition</u> Melting point/freezing point: Initial boiling point and boiling range</li> </ul>	Undetermined. <u>:</u> 100 °C
· <u>Flash point:</u>	Not applicable.
· <u>Flammability (solid, gas):</u>	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· <u>Explosion limits:</u> Lower: Upper:	Not determined. Not determined.
· Vapour pressure at 20 °C:	23 hPa
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.07 g/cm <sup>3</sup> Not determined. Not determined. Not determined.
· <u>Solubility in / Miscibility with</u> water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· <u>Viscosity:</u> <u>Dynamic:</u> Kinematic at 20 °C:	Not determined. 11 s (DIN 53211/4)
· <u>Solvent content:</u> <u>Water:</u>	94.2 %
· 9.2 Other information	No further relevant information available.

#### **SECTION 10: Stability and reactivity**

· <u>10.1 Reactivity</u> · <u>10.2 Chemical stability</u>	No further relevant information available.
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
<ul> <li><u>10.3 Possibility of hazardous</u> reactions</li> </ul>	Reacts with acids releasing chlorine. Reacts with certain metals.
<ul> <li><u>10.4 Conditions to avoid</u></li> <li><u>10.5 Incompatible materials:</u></li> <li>10.6 Hazardous decomposition</li> </ul>	No further relevant information available. No further relevant information available.
products:	Hydrogen chloride (HCI) Chlorine compounds

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

#### 11.1 Information on toxicological effects

· Acute toxicity

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

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<u>Trade name:</u> A	lgae_and	I_Mildew_Re	mover_Power	
				(Contd. of page 6)
· <u>LD/LC50</u> va	alues relev	ant for classif	ication:	
ATE (Acute	• Toxicity	Estimates)		
Oral L	_D50	>22,449 mg/ł	kg (rat)	
7681-52-9 s	sodium hy	ypochlorite, s	solution	
Oral L	_D50	>1,100 mg/kg	g (rat)	
Dermal L	_D50	>20,000 mg/ł	kg (rabbit)	
Inhalative L	_C50/1h	>10.5 mg/l (ra	at)	
1310-73-2 s	sodium h	ydroxide		
Oral L	_D50	2,000 mg/kg	(rat)	
L	_C50/48h	145 mg/l (poe	ecilia reticulata)	
· Primary irrit				
Skin corrosi			Causes severe skin burns and eye damage.	
Serious eye			Causes serious eye damage.	
Respiratory			Based on available data, the classification criteria are not met.	
		al information:		
· Germ cell m			enicity and toxicity for reproduction) Based on available data, the classification criteria are not met.	
Carcinogen		ty	Based on available data, the classification criteria are not met.	
· Reproductiv			Based on available data, the classification criteria are not met.	
· STOT-single		e	Based on available data, the classification criteria are not met.	
· STOT-repe			Based on available data, the classification criteria are not met.	
· Aspiration h			Based on available data, the classification criteria are not met.	

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

#### · 12.1 Toxicity

· Aquatic toxic	ity:	
	odium hypochlorite,	solution
EC50/48h	0.141 mg/l (daphnia	magna)
	0.026 mg/l (piscis)	
EC50/48h	0.141 mg/l (daphnia	magna)
LC50/96h	0.03-0.6 mg/l (piscis)	
1310-73-2 so	odium hydroxide	
EC50/24h	76 mg/l (daphnia ma	gna)
LC50/24h	145 mg/l (poecilia ret	ticulata)
EC50/15min	22 mg/l (Photobac. p	hosphoreum)
EC50/48h	76 mg/l (daphnia ma	gna)
LC50/96h	196 mg/l (piscis)	
	125 mg/l (Gambusia	affinis)
12.2 Persist		
degradabilit		No further relevant information available.
	umulative potential	No further relevant information available.
· <u>12.4 Mobility</u> · Additional ec	ological information:	No further relevant information available.
· <u>General note</u>		Do not allow product to reach ground water, water course or sewage system. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water <u>seessment</u> Not applicable.
<u></u>		(Contd. on page 8)



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	(Contd. of page
<u>vPvB:</u> 12.6 Other adverse effects	Not applicable. No further relevant information available.
12.6 Other adverse effects	
SECTION 13: Disposal consider	ations
13.1 Waste treatment methods	· · · · · · · · · · · · · · · · · · ·
Recommendation	Must be specially treated adhering to official regulations. Smaller quantities can be disposed of with household waste.
Uncleaned packaging:	Franki senteniseted esclarione the neurobly. These may be recorded at
Recommendation:	Empty contaminated packagings thoroughly. They may be recycled aft thorough and proper cleaning.
Recommended cleansing agents:	Water, if necessary together with cleansing agents.
SECTION 14: Transport informa	tion
14.1 UN-Number ADR, IMDG, IATA	UN1791
14.2 UN proper shipping name	
<u>ADR</u>	1791 HYPOCHLORITE SOLUTION
IMDG	ENVIRONMENTALLY HAZARDOUS HYPOCHLORITE SOLUTION, MARINE POLLUTANT
IATA	HYPOCHLORITE SOLUTION
14.3 Transport hazard class(es)	
ADR	
<u>Class</u> Label	8 (C9) Corrosive substances. 8
IMDG	
<u>Class</u> Label	8 Corrosive substances. 8
ΙΑΤΑ	
Class Label	8 Corrosive substances. 8
<b>14.4 Packing group</b> ADR, IMDG, IATA	II
14.5 Environmental hazards:	Product contains environmentally hazardous substances Symbol (fish and tree)
<u>Marine pollutant:</u> Special marking (ADR):	Symbol (fish and tree)

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	(Contd. o	f pa
EMS Number:	F-A,S-B	
Segregation groups	Hypochlorites	
Stowage Category	В	
Segregation Code	SG20 Stow "away from" SGG1-acids	
14.7 Transport in bulk according and the IBC Code	to Annex II of Marpol Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
T	Maximum net quantity per outer packaging: 500 ml	
Transport category	2 E	
Tunnel restriction code	E	
MDG		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
		0
UN "Model Regulation":	UN 1791 HYPOCHLORITE SOLUTION, ENVIRONMENTALLY HAZARDOUS	δ,
	tion	
-		
<b>15.1 Safety, health and environm</b> Directive 2012/18/EU	tion	
<b>15.1 Safety, health and environm</b> Directive 2012/18/EU Named dangerous substances -	tion ental regulations/legislation specific for the substance or mixture	
<b>15.1 Safety, health and environm</b> Directive 2012/18/EU Named dangerous substances - ANNEX I	tion	
<b>15.1 Safety, health and environm</b> Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the	tion ental regulations/legislation specific for the substance or mixture None of the ingredients is listed.	
<b>15.1 Safety, health and environm</b> Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier	tion ental regulations/legislation specific for the substance or mixture None of the ingredients is listed. E1 Hazardous to the Aquatic Environment	
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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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### Trade name: Algae\_and\_Mildew\_Remover\_Power

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<ul> <li>Reasons for alterations</li> </ul>	
· Relevant phrases	H290 May be corrosive to metals.
i	H302 Harmful if swallowed.
	H314 Causes severe skin burns and eye damage.
	H318 Causes serious eye damage.
	H335 May cause respiratory irritation.
	H400 Very toxic to aquatic life.
	H410 Very toxic to aquatic life with long lasting effects.
· Department issuing SDS:	Laboratory
· Contact:	Dieter Zimmermann
<ul> <li>Abbreviations and acronyms:</li> </ul>	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de
	fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European
	Agreement concerning the International Carriage of Dangerous Goods by Road)
	IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals
	EINECS: European Inventory of Existing Commercial Chemical Substances
	ELINCS: European List of Notified Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	DNEL: Derived No-Effect Level (REACH)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	Met. Corr.1: Corrosive to metals – Category 1
	Acute Tox. 4: Acute toxicity - oral – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
	Skin Corr. 1B: Skin corrosion/irritation – Category 1B
	Eye Dam. 1: Serious eye damage/eye irritation – Category 1
	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
	Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
· * Data compared to the previous	Aquado chichio 1. Hazardodo to tre aquado chinichinent - long-terri aquado hazard – Category 1
version altered.	Adaptation in accordance with REACH directive 1907/2006/EC
<u></u>	

