
Technical Data Sheet

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Properties:	AKEMI® Algae and Moss Remover POWER is a rapidly effective, slightly alkaline cleaner based on active chlorine compounds. The product is free of solvents.
Application Area:	AKEMI® Algae and Moss Remover POWER rapidly and thoroughly removes natural layers on façades, roofs, walls and floors made of natural and artificial stone, e.g. marble, granite, concrete ashlar and similar. Organic stains caused by coffee, tea, fruit juice, red wine, cardboard, blossom, bird droppings, tobacco etc. can be excellently removed.
Instructions for Use:	<ol style="list-style-type: none">1. Remove deep staining mechanically.2.a) Bottle/canister: Apply undiluted with a brush, sponge, scrubber or spraying device.2.b) Spray bottle: Spray evenly from a distance of approx. 25 cm.3. Allow to work for 10 - 30 minutes. Do not let dry on the surface. Then clean thoroughly with water and a brush.4. If necessary repeat cleaning.5. To prevent regeneration of new green films caused by moss or similar organic layer we recommend to use AKEMI® Algae and Moss Remover LONGLIFE.
Special Notes:	<ul style="list-style-type: none">- The product is registered by Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (BAuA) under the no. N-46237 and by Bundesinstitut für Risikobewertung (BfR) under the no. 2054843.- Wear suitable protection gloves.- Do not allow contact with plants, otherwise rinse immediately with water.- Do not allow contact with metals, wood, clothing or similar in order to avoid discolouring or bleaching.- Do not refill used material into storing containers.- Protect from direct sunlight and heat.- The spraying head of the spray bottle should be removed and cleaned with water after use.- Special regulation for Switzerland: AKEMI® Algae and Moss Remover POWER can be used indoors without restriction, outdoors only on façades.- For proper waste disposal container must be completely emptied.
Technical Data:	Coverage: approx. 10 - 20 m ² /liter Colour: yellowish transparent Density: approx. 1.10 g/cm ³ pH value: approx. 11
Storage:	If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 12 months from production.
Health & Safety:	Read Safety Data Sheet before handling or using this product.

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Important Notice:

The above information is based on the latest stage of development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trials of the product, in an inconspicuous area or fabrication of a sample piece.

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.12.2020

Version number 4

Revision: 04.12.2020

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

1.1 Product identifier

Trade name: **Algae and Mildew Remover Power**

Article number: 10825, 10832, 10833, 10997, 10998

UFI: ANT2-16SA-K014-0RJ9

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Cleaning agent/ Cleaner

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Met. Corr. 1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS05 GHS09

Signal word

Danger

Hazard-determining components of labelling:

sodium hypochlorite, solution

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read carefully and follow all instructions.

P260

Do not breathe mist/vapours/spray.

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P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	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 a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· <u>Additional information:</u>	EUH031 Contact with acids liberates toxic gas. To avoid risks to human health and the environment, comply with the instructions for use.

· 2.3 Other hazards· Results of PBT and vPvB assessment· PBT: Not applicable.· vPvB: Not applicable.**SECTION 3: Composition/information on ingredients****· 3.2 Chemical characterisation: Mixtures**· Description: Mixture: consisting of the following components.· Dangerous components:

CAS: 7681-52-9 EINECS: 231-668-3 Index number: 017-011-00-1 Reg.nr.: 01-2119488154-34-xxxx	sodium hypochlorite, solution 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	1-5%
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**

· <u>General information:</u>	Immediately remove any clothing soiled by the product. No special measures required.
· <u>After inhalation:</u>	Supply fresh air; consult doctor in case of complaints.
· <u>After skin contact:</u>	Immediately rinse with water.
· <u>After eye contact:</u>	Rinse opened eye for several minutes under running water. Then consult a doctor.
· <u>After swallowing:</u>	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.

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· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures· **5.1 Extinguishing media**· Suitable extinguishing agents:CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.· **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 (HCl)· **5.3 Advice for firefighters**· Protective equipment:Wear fully protective suit.
Wear self-contained respiratory protective device.**SECTION 6: Accidental release measures**· **6.1 Personal precautions, protective equipment and emergency procedures**

Not required.

· **6.2 Environmental precautions:**Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.· **6.3 Methods and material for containment and cleaning up:**Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.· **6.4 Reference to other sections**No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.**SECTION 7: Handling and storage**· **7.1 Precautions for safe handling**Do not seal receptacles gas-tight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.· Information about fire - and explosion protection:

No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**· Storage:· Requirements to be met by storerooms and receptacles:

Store in a cool location.

· Information about storage in one common storage facility:Do not store together with acids.
Store away from metals.· Further information about storage conditions:Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
Protect from frost.
Keep container tightly sealed.· Storage class:

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· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxide

WEL Short-term value: 2 mg/m³

· DNELs

1310-73-2 sodium hydroxide

Oral	DNEL (Langzeit-wiederholt)	2.3 mg/kg bw/day (ARB)
Dermal	DNEL (Langzeit-wiederholt)	11,718 mg/kg bw/day (ARB)
		11,718 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	1 mg/m ³ Air (ARB)
		1 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	1-2.1 mg/m ³ Air (ARB)
		1 mg/m ³ Air (BEV)

· Additional information: The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· Personal protective equipment:
 · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing
 Do not inhale gases / fumes / aerosols.
 Filter B

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (<http://www.stoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

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**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Butyl rubber, BR
Nitrile rubber, NBR
Fluorocarbon rubber (Viton)
Chloroprene rubber, CR
Natural rubber, NR

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 glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

Value for the permeation: Level \leq 6; 480 min

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR
Camatril (KCL, Art_No. 730, 731, 732, 733)
Dermatril (Art_No. 740, 741, 742)
Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
Chloroprene rubber, CR
Camapren (KCL, Art_No. 720, 722, 726)
Natural rubber, NR
Combi-Latex (KCL, Art_No. 395)
Butyl rubber, BR
Butoject (KCL, Art_No. 897, 898)

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)
Butyl rubber, BR
Butoject (KCL, Art_No. 897, 898)

· Not suitable are gloves made of the following materials:

Leather gloves
Strong material gloves

· Eye protection:**Tightly sealed goggles**· Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties· **9.1 Information on basic physical and chemical properties**· General Information· Appearance:Form:

Fluid

Colour:

Yellowish

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· <u>Odour:</u>	Chlorine-like
· <u>Odour threshold:</u>	Not determined.
· <u>pH-value at 20 °C:</u>	11.5
· <u>Change in condition</u> <u>Melting point/freezing point:</u>	Undetermined.
<u>Initial boiling point and boiling range:</u>	100 °C
· <u>Flash point:</u>	Not applicable.
· <u>Flammability (solid, gas):</u>	Not applicable.
· <u>Decomposition temperature:</u>	Not determined.
· <u>Auto-ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Explosion limits:</u> <u>Lower:</u>	Not determined.
<u>Upper:</u>	Not determined.
· <u>Vapour pressure at 20 °C:</u>	23 hPa
· <u>Density at 20 °C:</u>	1.07 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.
· <u>Evaporation rate</u>	Not determined.
· <u>Solubility in / Miscibility with water:</u>	Fully miscible.
· <u>Partition coefficient: n-octanol/water:</u>	Not determined.
· <u>Viscosity:</u> <u>Dynamic:</u>	Not determined.
<u>Kinematic at 20 °C:</u>	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

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with acids releasing chlorine.
Reacts with certain metals.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Hydrogen chloride (HCl)
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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· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	>22,449 mg/kg (rat)
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7681-52-9 sodium hypochlorite, solution

Oral	LD50	>1,100 mg/kg (rat)
Dermal	LD50	>20,000 mg/kg (rabbit)
Inhalative	LC50/1h	>10.5 mg/l (rat)

1310-73-2 sodium hydroxide

Oral	LD50	2,000 mg/kg (rat)
	LC50/48h	145 mg/l (poecilia reticulata)

- Primary irritant effect:
- Skin corrosion/irritation Causes severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 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.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**· 12.1 Toxicity**· Aquatic toxicity:**7681-52-9 sodium 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 sodium hydroxide

EC50/24h	76 mg/l (daphnia magna)
LC50/24h	145 mg/l (poecilia reticulata)
EC50/15min	22 mg/l (Photobac. phosphoreum)
EC50/48h	76 mg/l (daphnia magna)
LC50/96h	196 mg/l (piscis)
	125 mg/l (Gambusia affinis)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- Additional ecological information:
- General notes: 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
- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable.

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- vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **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:
- Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number**
- ADR, IMDG, IATA UN1791
- **14.2 UN proper shipping name**
- ADR 1791 HYPOCHLORITE SOLUTION, ENVIRONMENTALLY HAZARDOUS
- IMDG HYPOCHLORITE SOLUTION, MARINE POLLUTANT
- IATA HYPOCHLORITE SOLUTION
- **14.3 Transport hazard class(es)**
- ADR
- 
- Class 8 (C9) Corrosive substances.
- Label 8
- IMDG
- 
- Class 8 Corrosive substances.
- Label 8
- IATA
- 
- Class 8 Corrosive substances.
- Label 8
- **14.4 Packing group**
- ADR, IMDG, IATA II
- **14.5 Environmental hazards:**
- Marine pollutant: Product contains environmentally hazardous substances: Symbol (fish and tree)
- Special marking (ADR): Symbol (fish and tree)
- **14.6 Special precautions for user**
- Hazard identification number (Kemler code): Warning: Corrosive substances. 80

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· EMS Number:	F-A,S-B
· Segregation groups	Hypochlorites
· Stowage Category	B
· Segregation Code	SG20 Stow "away from" SGG1-acids

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
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· Transport/Additional information:

· ADR	
· 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
· Transport category	2
· Tunnel restriction code	E

· IMDG	
· 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

· UN "Model Regulation":	UN 1791 HYPOCHLORITE SOLUTION, 8, II, ENVIRONMENTALLY HAZARDOUS
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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Directive 2012/18/EU	
· Named dangerous substances - ANNEX I	None of the ingredients is listed.
· Seveso category	E1 Hazardous to the Aquatic Environment
· Qualifying quantity (tonnes) for the application of lower-tier requirements	200 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements	500 t
· REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II	
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None of the ingredients is listed.

· National regulations:

· Information about limitation of use:	Employment restrictions concerning juveniles must be observed.
· Waterhazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
· VOC EU	0.0 g/l

· 15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.
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SECTION 16: Other information

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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- Reasons for alterations
- Relevant phrases

H290 May be corrosive to metals.
 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:
- Contact:
- Abbreviations and acronyms:

Laboratory
 Dieter Zimmermann
 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 version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

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