

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# Mr Muscle Kitchen & Bathroom Drain Gel

Revision: 2014-02-06

Version: 01

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

1.1 Product identifier

Trade name: Mr Muscle Kitchen & Bathroom Drain Gel Mr Muscle ® Used under authority from S.C. Johnson & Son Inc., Racine, Wisconsin, U.S.A.

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

For professional use only. AISE-P606 - Drain unblocker. Manual process AISE-P607 - Drain cleaner. Manual process Uses advised against: Uses other than those identified are not recommended

# 1.3 Details of the supplier of the safety data sheet

Diversey Ltd

### **Contact details**

Weston Favell Centre, Northampton NN3 8PD, United Kingdom Tel: 01604 405311, Fax: 01604 406809 Regulatory Email: MSDSinfoUK@sealedair.com

### 1.4 Emergency telephone number

For medical or environmental emergency only: call 0800 052 0185

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Directive 1999/45/EC and corresponding national legislation.

Indication of danger

C - Corrosive

N - Dangerous for the environment

### **Risk phrases:**

R31 - Contact with acids liberates toxic gas.R34 - Causes burns.R50 - Very toxic to aquatic organisms.

### 2.2 Label elements



C - Corrosive

N - Dangerous for the environment

Contains sodium hydroxide, sodium hypochlorite

### Risk phrases:

R31 - Contact with acids liberates toxic gas.

R34 - Causes burns.

R50 - Very toxic to aquatic organisms.

### Safety phrases:

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28a - After contact with skin, wash immediately with plenty of water.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61b - Avoid release to the environment. Refer to safety data sheet.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII

# SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (EC) 1272/2008	Notes	Weight percent
sodium hypochlorite	231-668-3	7681-52-9	01-2119488154-34	R31 C;R34 Xi;R37 N;R50	Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Met. Corr. 1 (H290) STOT SE 3 (H335) (EUH031)		3-10
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	C;R35	Skin Corr. 1A (H314) Met. Corr. 1 (H290)		3-10
amines, C10-16 alkyldimethyl-,N-oxides	274-687-2	70592-80-2	No data available	Xn;R22 Xi;R38-41 N;R50	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Irrit. 2 (H315)		1-3

\* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

Workplace exposure limit(s), if available, are listed in subsection 8.1. [1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

# SECTION 4: First aid measures

4.1 Description of first aid measures	
General Information:	If unconscious place in recovery position and seek medical advice.
Inhalation	Remove from source of exposure. Get medical attention immediately.
Skin contact:	Rinse with plenty of water. Take off all contaminated clothing immediately. Get medical attention.
Eye contact:	Wash off immediately with plenty of water. Get medical attention immediately.
Ingestion:	Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention immediately.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.
4.2 Most important symptoms and effe	ects, both acute and delayed
Inhalation:	May cause bronchospasm in chlorine sensitive individuals. Severe irritant, may cause respiratory tract irritation.
Skin contact:	Causes burns.
Eve contact:	Causaa aayara ar narmanant damaga
	Causes severe or permanent damage.

### Sensitisation:

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

### SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

No known effects.

### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

### SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

In case of an incident in a confined area wear suitable respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

### Advice on safe handling:

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. For advice on general occupational hygiene see subsection 8.2. For environmental exposure controls see subsection 8.2. For incompatible materials see subsection 10.5.

### Prevention of fire and explosion:

No special precautions required.

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

**Requirements for storage rooms / facilities:** In accordance with local and national regulations.

### Combined storage in storage rooms / facilities:

In accordance with local and national regulations. Store away from acids.

### **Basic storage conditions**

Store in original container. Keep container tightly closed. For conditions to avoid see subsection 10.4.

### 7.3 Specific end use(s)

No specific advice for end use available.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
sodium hydroxide		2 mg/m <sup>3</sup>

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

### **DNEL/DMEL and PNEC values**

### Human exposure DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hypochlorite	No data available	No data available	No data available	0.26
sodium hydroxide	No data available	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	No data available	No data available	No data available	No data available

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
sodium hypochlorite	No data available	No data available	0.5 %	No data available
sodium hydroxide	2 %	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	No data available	No data available	No data available	No data available

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
sodium hypochlorite	No data available	No data available	0.5 %	No data available
sodium hydroxide	2 %	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	No data available	No data available	No data available	No data available

### DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hypochlorite	3.1	3.1	1.55	1.55
sodium hydroxide	No data available	No data available	1	No data available

amines, C10-16 alkyldimethyl-,N-oxides	No data available	No data available	No data available	No data available
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# DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hypochlorite	3.1	3.1	1.55	1.55
sodium hydroxide	No data available	No data available	1	No data available
amines, C10-16 alkyldimethyl-,N-oxides	No data available	No data available	No data available	No data available

### Environmental exposure

### Environmental exposure - PNEC Sewage treatment Surface water, fresh Surface water, marine Ingredient(s) Intermittent (mg/l) (mg/l) (mg/l) plant (mg/l) sodium hypochlorite 0.00021 0.000042 0.00026 0.03 No data available sodium hydroxide No data available No data available No data available amines, C10-16 alkyldimethyl-,N-oxides No data available No data available No data available No data available

### Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium hypochlorite	No data available	No data available	No data available	0.00026
sodium hydroxide	No data available	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	No data available	No data available	No data available	No data available

### 8.2 Exposure controls

### General health and safety measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Avoid contact with skin and eyes.

The following information applies for the uses indicated in subsection 1.2. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the <u>undiluted</u> product:

Appropriate engineering controls: Appropriate organisational controls:	Use only in well ventilated areas. Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for manual handling of product. Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment Eye / face protection: Hand protection:	Safety glasses or goggles (EN 166). Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: >= 480 min Material thickness: >= 0.7 mm Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: >= 30 min Material thickness: >= 0.4 mm In consultation with the supplier of protective gloves a different type providing similar protection may
Body protection:	be chosen. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may
	occur.
Respiratory protection:	No special requirements under normal use conditions.
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted.

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

## 9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Physical State: Liquid Colour: Clear, Pale, Yellow Odour: Chlorine Odour threshold: Not applicable Method / remark

# pH: > 12 (neat) Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium hypochlorite	96-120	Method not given	1013
sodium hydroxide	> 990	Method not given	1013
amines, C10-16 alkyldimethyl-,N-oxides	No data available		

### Method / remark

Flash point (°C): Not applicable. Sustained combustion: Not determined Evaporation rate: Not determined Flammability (solid, gas): Not determined Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

### Vapour pressure: Not determined

Method / remark

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hypochlorite	1700-2000	Method not given	20
sodium hydroxide	< 1330	Method not given	20
amines, C10-16 alkyldimethyl-,N-oxides	No data available		

### Method / remark

### Vapour density: Not determined Relative density: 1.12 g/cm<sup>3</sup> (20°C) Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium hypochlorite	No data available		
sodium hydroxide	1000	Method not given	20
amines, C10-16 alkyldimethyl-,N-oxides	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined Explosive properties: Not explosive. Oxidising properties: Not oxidising.

9.2 Other information Surface tension (N/m): Not determined Corrosion to metals (according to IMDG/ADR regulation): Not determined

Substance data, dissociation constant, if available:

Ingredient(s)	Value	Method	Temperature (°C)
sodium hypochlorite	7.53 (pKa)	Method not given	

# SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

### 10.4 Conditions to avoid

None known under normal storage and use conditions.

Method / remark

### 10.5 Incompatible materials

Reacts with acids releasing toxic chlorine gas.

# 10.6 Hazardous decomposition products

Chlorine.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Mixtures No test data is available on the mixture

Substance data, where relevant and available, are listed below.

### Acute toxicity Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium hypochlorite	LD 50	> 1100	Rat	Method not given	
sodium hydroxide		No data available			
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium hypochlorite	LD 50	> 20000	Rabbit	Method not given	
sodium hydroxide		No data available			
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite	LC o	> 10.5 (vapour)	Rat	OECD 403 (EU B.2)	1
sodium hydroxide		No data available			
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

### Irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite	Corrosive	Rabbit	Method not given	
sodium hydroxide	Corrosive	Rabbit	Method not given	
amines, C10-16 alkyldimethyl-,N-oxides	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite	Severe damage	Rabbit	Method not given	
sodium hydroxide	Corrosive	Rabbit	Method not given	
amines, C10-16 alkyldimethyl-,N-oxides	No data available			

Respiratory tract irritation and corrosivity				
Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite	Irritating to respiratory tract			
sodium hydroxide	No data available			
amines, C10-16 alkyldimethyl-,N-oxides	No data available			

### Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium hypochlorite	Not sensitising	Guinea pig	Method not given	
sodium hydroxide	Not sensitising		Human repeated patch test	
amines, C10-16 alkyldimethyl-,N-oxides	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite	No data available			
sodium hydroxide	No data available			

amines, C10-16 alkyldimethyl-,N-oxides	No data available		

Repeated dose toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium hypochlorite	NOAEL	50	Rat	Method not given	90	
sodium hydroxide		No data available				
amines, C10-16 alkyldimethyl-,N-oxides		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium hypochlorite		No data				
		available				
sodium hydroxide		No data				
		available				
amines, C10-16 alkyldimethyl-,N-oxides		No data				
		available				

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sodium hypochlorite		No data				
		available				
sodium hydroxide		No data				
		available				
amines, C10-16 alkyldimethyl-,N-oxides		No data				
		available				

Chronic toxicity

Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
	route		(mg/kg bw/d)			time	organs affected	
sodium hypochlorite			No data					
			available					
sodium hydroxide			No data					
,,			available					
amines, C10-16			No data					
alkyldimethyl-,N-oxides			available					

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mixture data:

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

Substance data, where relevant and available:

Carcinogenicity

Ingredient(s)	Effect
sodium hypochlorite	No evidence for carcinogenicity, negative test results
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
amines, C10-16 alkyldimethyl-,N-oxides	No data available

Mutagenicity

Ingredient(s)	Result (in-vitro)		Result (in-vivo)	Method
		(in-vitro)		(in-vivo)
sodium hypochlorite	No evidence for mutagenicity, weight of		No evidence for mutagenicity, negative	Method not
	evidence	B.12/13)	test results	given
sodium hydroxide	No evidence for mutagenicity, negative	DNA repair test	No evidence for mutagenicity, negative	OECD 474 (EU
	test results	on rat	test results	B.12) OECD
		hepatocytes		475 (EU B.11)
		OECD 473		
amines, C10-16 alkyldimethyl-,N-oxides	No data available		No data available	

### Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium hypochlorite	NOAEL	Developmental toxicity	5 (CI)	Rat	Not known		No evidence for reproductive toxicity
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity
amines, C10-16 alkyldimethyl-,N-oxides			No data available				

### Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

# **SECTION 12: Ecological information**

### 12.1 Toxicity Mixtures

No test data is available on the mixture.

Substance data, where relevant and available, are listed below

## Aquatic short-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite	LC 50	0.06	Various species	Method not given	96
sodium hydroxide	LC 50	35	Various species	Method not given	96
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite	EC 50	0.026	Not specified	Method not given	48
sodium hydroxide	EC 50	40.4	Ceriodaphnia sp.	Method not given	48
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite	NOEC	0.0021	Not specified	Method not given	168
sodium hydroxide	EC 50	22	Photobacteriu m phosphoreum	Method not given	0.25
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

### Aquatic short-term toxicity - marine species Ingredient(s) Endpoint Value Species Method Exposure time (days) (mg/l) No data available sodium hypochlorite sodium hydroxide No data available amines, C10-16 alkyldimethyl-,N-oxides No data available

Impact on sewage plan	its - toxicity to bacteria
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Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium hypochlorite		0.375	Activated sludge	Method not given	
sodium hydroxide		No data available			
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

### Aquatic long-term toxicity Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hypochlorite	NOEC	0.04	Menidia pelinsulae	Method not given	96 hour(s)	
sodium hydroxide		No data available				
amines, C10-16 alkyldimethyl-,N-oxides		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hypochlorite		No data available				
sodium hydroxide		No data available				
amines, C10-16 alkyldimethyl-,N-oxides		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sodium hypochlorite		No data available				
sodium hydroxide		No data available				
amines, C10-16 alkyldimethyl-,N-oxides		No data available				

### **Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

# 12.2 Persistence and degradability

# Abiotic degradation

Abiotic degradation photodegradation i	ran, n'avanabio.			
Ingredient(s)	Half-life time	Method	Evaluation	Remark
sodium hypochlorite	115 day(s)	Indirect photo-oxidation		
sodium hydroxide	13 second(s)	Method not given	Rapidly photodegradable	

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

### Biodegradation

Ready biodegradability - aerobic conditions						
Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation	
sodium hypochlorite					Not applicable (inorganic substance)	
sodium hydroxide					Not applicable (inorganic substance)	
amines, C10-16 alkyldimethyl-,N-oxides					No data available	

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### **12.3 Bioaccumulative potential** Partition coefficient p-octanol/water (log Kow)

antition coefficient in cetanol/ water (log i	(011)			
Ingredient(s)	Value	Method	Evaluation	Remark
sodium hypochlorite	-3.42	Method not given	No bioaccumulation expected	
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
amines, C10-16 alkyldimethyl-,N-oxides	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hypochlorite	No data available				
sodium hydroxide	No data available				
amines, C10-16 alkyldimethyl-,N-oxides	No data available				

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
sodium hypochlorite	1.12				High potential for mobility in soil
sodium hydroxide	No data available				Mobile in soil
amines, C10-16 alkyldimethyl-,N-oxides	No data available				

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

### 12.6 Other adverse effects

No other adverse effects known.

### SECTION 13: Disposal considerations

13.1 Waste treatment methods Waste from residues / unused products: European Waste Catalogue:	The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation. 20 01 15* - alkalines.
Empty packaging Recommendation: Suitable cleaning agents:	Dispose of observing national or local regulations. Water, if necessary with cleaning agent.

# SECTION 14: Transport information



ADR, RID, ADN, IMO/IMDG, ICAO/IATA 14.1 UN number: 1719 14.2 UN proper shipping name: Caustic alkali liquid, n.o.s. ( sodium hydroxide , hypochlorite ) 14.3 Transport hazard class(es): Class: 8 Label(s): 8 14.4 Packing group: III 14.5 Environmental hazards: Environmentally hazardous: Yes Marine pollutant: Yes 14.6 Special precautions for user: None known. 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers. Other relevant information: ADR Classification code: C5 Tunnel restriction code: E Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

### **SECTION 15: Regulatory information**

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

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

### Ingredients according to EC Detergents Regulation 648/2004

chlorine-based bleaching agents	•	•	5 - 15%
non-ionic surfactants, soap			< 5%

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

# **SECTION 16: Other information**

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

Version: 01

Revision: 2014-02-06

Reason for revision:

Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II

### Full text of the R, H and EUH phrases mentioned in section 3:

- R34 Causes burns.
  R50 Very toxic to aquatic organisms.
  R31 Contact with acids liberates toxic gas.
  R35 Causes severe burns.
- R41 Risk of serious damage to eyes.
- R38 Irritating to skin.
- EUH031 Contact with acids liberates toxic gas.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
  H315 Causes skin irritation.
  H318 Causes serious eye damage.
  H335 May cause respiratory irritation.

- H400 Very toxic to aquatic life.

### Abbreviations and acronyms:

- AISE The international Association for Soaps, Detergents and Maintenance Products
  DNEL Derived No Effect Limit
  EUH CLP Specific hazard statement
  PBT Persistent, Bioaccumulative and Toxic
  PNEC Predicted No Effect Concentration

- REACH number REACH registration number, without supplier specific part
- vPvB very Persistent and very Bioaccumulative

End of Safety Data Sheet