Safety Data Sheet

According to Regulation (EC) No 1907/2006

Lifeguard(*) Toilet Descaler

Revision: 2012-10-26 *Version 04*

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

1.1 Product identifier
Trade name: Lifeguard(*) Toilet Descaler

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses:
For professional use only
AISE-P307 - Descaling agent. 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
Xi - Irritant

Risk phrases:
R36/38 - Irritating to eyes and skin.

2.2 Label elements

Xi - Irritant

Risk phrases:
R36/38 - Irritating to eyes and skin.

Safety phrases:
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 - Wear suitable gloves.

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

phosphoric acid	231-633-2	7664-38-2	01-2119485924-24	C; R34	Skin Corr. 1B (H314) Met. Corr. 1 (H290)		3-10
hydrochloric acid	231-595-7	7647-01-0	01-2119484862-27	C; R34-37	Skin Corr. 1B (H314) Met. Corr. 1 (H290) STOT SE 3 (H335)		3-10
oleylbis(2-hydroxyethyl)methylammonium chloride	242-332-0	18448-65-2	No data available	C,N; R22-34-50	Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Acute Tox. 4 (H302)		1-3
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	263-179-6	61791-46-6	No data available	Xi,N; R38-41-50	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315)		0.1-1

* 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

Inhalation Remove from source of exposure. Get medical attention.

Skin contact Not required under normal use. Rinse with plenty of water. If irritation develops get medical attention.

Eye contact Wash off immediately with plenty of water. Get medical attention.

Ingestion Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation Causes irritation.

Skin contact Causes irritation.

Eye contact Causes irritation.

Ingestion Causes irritation.

Sensitisation No known effects.

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.

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
Wear suitable gloves.

6.2 Environmental precautions
Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

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 products containing chlorine-based bleaching agents or sulphites.

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)
phosphoric acid	1 mg/m³	2 mg/m³
hydrochloric acid	1 ppm aerosol mist and gas 2 mg/m³ aerosol mist and gas	5 ppm aerosol mist and gas 8 mg/m³ aerosol mist and gas

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
phosphoric acid	No data available	No data available	No data available	No data available
hydrochloric acid	No data available	No data available	No data available	No data available
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available	No data available	No data available	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 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)
phosphoric acid	No data available	No data available	No data available	No data available
hydrochloric acid	No data available	No data available	No data available	No data available
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available	No data available	No data available	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 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)
phosphoric acid	No data available	No data available	No data available	No data available
hydrochloric acid	No data available	No data available	No data available	No data available
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available	No data available	No data available	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
phosphoric acid	No data available	No data available	2.92	No data available
hydrochloric acid	15	No data available	8	No data available
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available	No data available	No data available	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
phosphoric acid	No data available	No data available	0.73	No data available
hydrochloric acid	No data available	No data available	No data available	No data available
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available	No data available	No data available	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
phosphoric acid	No data available	No data available	No data available	No data available
hydrochloric acid	0.036	0.036	0.045	0.036
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available	No data available	No data available	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 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)
phosphoric acid	No data available	No data available	No data available	No data available
hydrochloric acid	No data available	No data available	No data available	No data available
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available	No data available	No data available	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 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 undiluted product:

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.

Hand protection: 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 be chosen.

Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: Should not reach sewage water or drainage ditch undiluted or unneutralised.

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

Method / remark

Physical State: Liquid
Colour Clear Blue
Odour Slightly perfumed

Odour threshold: Not applicable.
pH:< 2 (neat)
Melting point/freezing point (°C): Not determined
Initial boiling point and boiling range (°C): Not determined
Flash point (°C): Not applicable.
Sustained combustion: Not determined
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Upper/lower flammability limit (%): Not determined

Vapour pressure: Not determined

Vapour density: Not determined
Relative density: 1.10 g/cm³ (20°C)

Solubility in / Miscibility with Water: Fully miscible

Autoignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity:≈ 550 mPa.s (20°C)
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

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.

10.5 Incompatible materials
Keep away from products containing chlorine-based bleaching agents or sulphites. Reacts with alkali.

10.6 Hazardous decomposition products
None known under normal storage and use conditions.

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)
phosphoric acid	LD_{50}	2600	Rat	OECD 423 (EU B.1 tris)	
hydrochloric acid	LD_{50}	900	Rabbit	Method not given	
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available			

ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
phosphoric acid	LD_{50}	2740	Rabbit	Method not given	
hydrochloric acid	LD_{50}	> 5010	Rabbit	Method not given	
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	LC_{50}	850	Rat	Method not given	2
hydrochloric acid	LC_{50}	8	Rat	Method not given	
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
hydrochloric acid	Corrosive	Rabbit	Method not given	
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	Irritant		Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	Severe damage	Rabbit		
hydrochloric acid	Corrosive Severe damage	Rabbit	OECD 405 (EU B.5)	
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	Severe damage			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	No data available			
hydrochloric acid	No data available			
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
phosphoric acid	Not sensitising	Human	Human experience	
hydrochloric acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	No data available			
hydrochloric acid	No data available			
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available			

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
phosphoric acid		No data available				

hydrochloric acid		No data available				
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 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
phosphoric acid		No data available				
hydrochloric acid		No data available				
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
phosphoric acid		No data available				
hydrochloric acid		No data available				
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
phosphoric acid			No data available					
hydrochloric acid			No data available					
oleylbis(2-hydroxyethyl) methylammonium chloride			No data available					
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides			No data 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
phosphoric acid	No data available
hydrochloric acid	No evidence for carcinogenicity, negative test results
oleylbis(2-hydroxyethyl) methylammonium chloride	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
phosphoric acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	No data available	
hydrochloric acid	No evidence for mutagenicity, weight of evidence	OECD 471 (EU B.12/13)	No data available	
oleylbis(2-hydroxyethyl) methylammonium chloride	No data available		No data available	
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 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
phosphoric acid	NOAEL	Developmental toxicity	410	Rat	OECD 422, oral	10 day(s)	No evidence for reproductive toxicity No evidence for developmental toxicity
hydrochloric acid			No data available				No evidence for reproductive toxicity
oleylbis(2-hydroxyethyl) methylammonium chloride			No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 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
Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	LC_{50}	138	Gambusia affinis	Method not given	96
hydrochloric acid	LC_{50}	7.45	Various species	Method not given	96
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	LC_{50}	> 0.1 - 1	Brachydanio rerio	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	EC_{50}	> 100	Daphnia magna Straus	OECD 202	48
hydrochloric acid	EC_{50}	0.492	Daphnia magna Straus	Method not given	48
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	EC_{50}	> 0.1 - 1	Daphnia magna Straus	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	EC_{50}	> 100	Desmodesmus subspicatus	OECD 201	72
hydrochloric acid	EC_{50}	0.78	Pseudokirchneriella subcapitata	Method not given	72
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
phosphoric acid		No data available			
hydrochloric acid		No data available			
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time

phosphoric acid	EC_{50}	270	Activated sludge	Method not given	
hydrochloric acid		No data available			
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 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
phosphoric acid		No data available				
hydrochloric acid		No data available				
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
phosphoric acid		No data available				
hydrochloric acid		No data available				
oleylbis(2-hydroxyethyl)methylammonium chloride		No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data available				

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

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
phosphoric acid					No data available
hydrochloric acid					Not applicable (inorganic substance)
oleylbis(2-hydroxyethyl)methylammonium chloride					No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable

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 n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark

phosphoric acid	No data available			
hydrochloric acid	-0.25	Method not given	No bioaccumulation expected	
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available		No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
phosphoric acid	No data available				
hydrochloric acid	No data available				
oleylbis(2-hydroxyethyl) methylammonium chloride	No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 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
phosphoric acid	No data available				
hydrochloric acid	No data available				High potential for mobility in soil
oleylbis(2-hydroxyethyl)methylammonium chloride	No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available				

12.5 Results of PBT and vPvB assessment

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 Dispose of in compliance with all Federal, state, provincial, and local laws and regulations.

European Waste Catalogue: 20 01 29* - detergents containing dangerous substances.

Empty packaging

Recommendation: Dispose of observing national or local regulations.

Suitable cleaning agents Water, if necessary with cleaning agent.

SECTION 14: Transport information

ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: 3264

14.2 UN proper shipping name:

Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid , phosphoric acid)

14.3 Transport hazard class(es):

Class:8

Label(s):8

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant No

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 C1

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

Ingredients according to EC Detergents Regulation 648/2004

cationic surfactants, non-ionic surfactants	< 5%
perfumes, Eugenol, Hexyl Cinnamal	

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

(*) This brand is used under authority from SC Johnson & Son Inc. Racine, Wisconsin, USA

MSDS code: MSDS4484 **Version** 04 **Revision:** 2012-10-26

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.
- R37 - Irritating to respiratory system.
- R50 - Very toxic to aquatic organisms.
- R22 - Harmful if swallowed.
- R41 - Risk of serious damage to eyes.
- R38 - Irritating to skin.
- R36/38 - Irritating to eyes and skin.
- 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