

Clax Bright 44A1 (Clax Bright 4BL1)

Revision: 2013-07-11

Version: 07

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

1.1 Product identifier

Trade name: Clax Bright 44A1 (Clax Bright 4BL1)

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

Identified uses:

For industrial use only.

AISE-P110 - Laundry aid (non-gassing). Automatic 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

O - Oxidising

Risk phrases:

R 8 - Contact with combustible material may cause fire.

R41 - Risk of serious damage to eyes.

2.2 Label elements



Xi - Irritant

O - Oxidising

Risk phrases:

R 8 - Contact with combustible material may cause fire.

R41 - Risk of serious damage to eyes.

Safety phrases:

S141 - Keep away from impurities, decomposition catalysts, alkalis, reducing agents and flammable substances.

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

S 3/7 - Keep container tightly closed in a cool place.

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

Clax Bright 44A1 (Clax Bright 4BL1)

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (EC) 1272/2008	Notes	Weight percent
6-(phthalimido)peroxyhexanoic acid	410-850-8	128275-31-0	No data available	O;R7 Xi;R41 N;R50	Org. Perox. D (H242) Eye Dam. 1 (H318) Aquatic Acute 1 (H400)		10-20
1-hydroxyethane-1,1-diphosphonic acid	220-552-8	2809-21-4	01-2119510391-53	Xn;R22 Xi;R41	Eye Dam. 1 (H318) Met. Corr. 1 (H290) Acute Tox. 4 (H302)		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

Inhalation:

Remove from source of exposure. Get medical attention.

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.

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:

Powerful oxidizing agent.

Eye contact:

Causes severe 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 protective clothing, gloves and eye/face protection.

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

Clax Bright 44A1 (Clax Bright 4BL1)

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:

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
6-(phthalimido)peroxyhexanoic acid	No data available	No data available	No data available	No data available
1-hydroxyethane-1,1-diphosphonic acid	No data available	6.5	No data available	6.5

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)
6-(phthalimido)peroxyhexanoic acid	No data available	No data available	No data available	No data available
1-hydroxyethane-1,1-diphosphonic acid	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)
6-(phthalimido)peroxyhexanoic acid	No data available	No data available	No data available	No data available
1-hydroxyethane-1,1-diphosphonic acid	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
6-(phthalimido)peroxyhexanoic acid	No data available	No data available	No data available	No data available
1-hydroxyethane-1,1-diphosphonic acid	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
6-(phthalimido)peroxyhexanoic acid	No data available	No data available	No data available	No data available
1-hydroxyethane-1,1-diphosphonic acid	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)
6-(phthalimido)peroxyhexanoic acid	No data available	No data available	No data available	No data available
1-hydroxyethane-1,1-diphosphonic acid	0.136	0.0136	No data available	20

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
6-(phthalimido)peroxyhexanoic acid	No data available	No data available	No data available	No data available
1-hydroxyethane-1,1-diphosphonic acid	59	5.9	96	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.

Clax Bright 44A1 (Clax Bright 4BL1)

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 or goggles (EN 166).
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: 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: No special requirements under normal use conditions.

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: Milky White
Odour: Product specific
Odour threshold: Not applicable
pH: ≈ 4 (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)
6-(phthalimido)peroxyhexanoic acid	No data available		
1-hydroxyethane-1,1-diphosphonic acid	105	Method not given	

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:

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
6-(phthalimido)peroxyhexanoic acid	No data available		
1-hydroxyethane-1,1-diphosphonic acid	< 0.00001	Method not given	25

Method / remark

Vapour density: Not determined**Relative density:** 1.01 g/cm³ (20°C)**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
6-(phthalimido)peroxyhexanoic acid	No data available		
1-hydroxyethane-1,1-diphosphonic acid	No data available		

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

Method / remark

Autoignition temperature: Not determined**Decomposition temperature:** Not determined**Viscosity:** ≈ 550 mPa.s (20°C)**Explosive properties:** Not explosive.**Oxidising properties:** Contact with combustible material may cause fire.**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:

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

Keep away from heat and direct sunlight. Keep in a cool place.

10.5 Incompatible materials

Contact with combustible material may cause fire. Keep away from impurities, decomposition catalysts, alkalis, reducing agents and flammable substances. 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)
6-(phthalimido)peroxyhexanoic acid		No data available			
1-hydroxyethane-1,1-diphosphonic acid	LD ₅₀	1100	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
6-(phthalimido)peroxyhexanoic acid		No data available			
1-hydroxyethane-1,1-diphosphonic acid	LD ₅₀	> 5000	Rabbit	Method not given	

Acute inhalative toxicity

Clax Bright 44A1 (Clax Bright 4BL1)

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
6-(phthalimido)peroxyhexanoic acid		No data available			
1-hydroxyethane-1,1-diphosphonic acid		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
6-(phthalimido)peroxyhexanoic acid	No data available			
1-hydroxyethane-1,1-diphosphonic acid	Not irritant	Rabbit	Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
6-(phthalimido)peroxyhexanoic acid	No data available			
1-hydroxyethane-1,1-diphosphonic acid	Severe damage	Rabbit	Non guideline test	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
6-(phthalimido)peroxyhexanoic acid	No data available			
1-hydroxyethane-1,1-diphosphonic acid	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
6-(phthalimido)peroxyhexanoic acid	No data available			
1-hydroxyethane-1,1-diphosphonic acid	Not sensitising		Read across	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
6-(phthalimido)peroxyhexanoic acid	No data available			
1-hydroxyethane-1,1-diphosphonic acid	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
6-(phthalimido)peroxyhexanoic acid		No data available				
1-hydroxyethane-1,1-diphosphonic acid	NOAEL	1724	Rat	Method not given	90	

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
6-(phthalimido)peroxyhexanoic acid		No data available				
1-hydroxyethane-1,1-diphosphonic acid		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
6-(phthalimido)peroxyhexanoic acid		No data available				
1-hydroxyethane-1,1-diphosphonic acid		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
6-(phthalimido)peroxyhexanoic acid			No data available					
1-hydroxyethane-1,1-diphosphonic acid	Oral	NOAEL	1583	Rat	Non guideline test			

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
6-(phthalimido)peroxyhexanoic acid	No data available

Clax Bright 44A1 (Clax Bright 4BL1)

1-hydroxyethane-1,1-diphosphonic acid	No evidence for carcinogenicity, negative test results
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Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
6-(phthalimido)peroxyhexanoic acid	No data available		No data available	
1-hydroxyethane-1,1-diphosphonic acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
6-(phthalimido)peroxyhexanoic acid			No data available				
1-hydroxyethane-1,1-diphosphonic acid			No data available				No evidence for developmental toxicity

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)
6-(phthalimido)peroxyhexanoic acid		No data available			
1-hydroxyethane-1,1-diphosphonic acid	LC ₅₀	195	Oncorhynchus mykiss	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
6-(phthalimido)peroxyhexanoic acid		No data available			
1-hydroxyethane-1,1-diphosphonic acid	EC ₅₀	527	Daphnia magna Straus	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
6-(phthalimido)peroxyhexanoic acid		No data available			
1-hydroxyethane-1,1-diphosphonic acid	EC ₅₀	3	Pseudokirchneriella subcapitata	Method not given	96

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
6-(phthalimido)peroxyhexanoic acid		No data available			
1-hydroxyethane-1,1-diphosphonic acid		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
6-(phthalimido)peroxyhexanoic acid		No data available			
1-hydroxyethane-1,1-diphosphonic acid	EC ₀	1000	Pseudomonas putida	DIN 38412, Part 27	30 minute(s)

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
6-(phthalimido)peroxyhexanoic acid		No data available				
1-hydroxyethane-1,1-diphosphonic acid	NOEC	180	Oncorhynchus mykiss	OECD 204	14 day(s)	

Clax Bright 44A1 (Clax Bright 4BL1)

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
6-(phthalimido)peroxyhexanoic acid		No data available				
1-hydroxyethane-1,1-diphosphonic acid	NOEC	6.75	Daphnia magna	Method not given	28 day(s)	

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
6-(phthalimido)peroxyhexanoic acid					No data available
1-hydroxyethane-1,1-diphosphonic acid			22.88 % in 5 day(s)	OECD 301D	Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
6-(phthalimido)peroxyhexanoic acid	No data available			
1-hydroxyethane-1,1-diphosphonic acid	-3.49	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
6-(phthalimido)peroxyhexanoic acid	No data available				
1-hydroxyethane-1,1-diphosphonic acid	> 7		Method not given	No bioaccumulation expected	

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
6-(phthalimido)peroxyhexanoic acid	No data available				
1-hydroxyethane-1,1-diphosphonic acid	2.8 - 4.7		Method not given		Low mobility in soil

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:****European Waste Catalogue:**

Dispose of observing national or local regulations.

16 09 03* - peroxides, for example hydrogen peroxide.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

Clax Bright 44A1 (Clax Bright 4BL1)

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

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

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

Class:-

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

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.

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

oxygen-based bleaching agents

15 - 30%

phosphonates

< 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

MSDS code: MSDS3175

Version: 07

Revision: 2013-07-11

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

- R50 - Very toxic to aquatic organisms.
- R 7 - May cause fire.
- R41 - Risk of serious damage to eyes.
- H242 - Heating may cause a fire.
- H318 - Causes serious eye damage.
- 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