

Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 27.01.2025

Version number 6 (replaces version 5)

Revision: 27.01.2025

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

· 1.1 Product identifier

· Trade name: **Extra Kleen Scale Kleen**

· Registration number Mixture

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

· Product category PC35 Washing and cleaning products (including solvent based products)

· Application of the substance / the mixture Descalant

· Uses advised against

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving significant release of aerosol, vapour or dust in the breathing zone of workers where they are exposed without suitable respiratory protective equipment (RPE).

Processes involving the use of incompatible substances - refer to section 10.

The product is intended exclusively for industrial and professional use.

· 1.3 Details of the supplier of the safety data sheet

· Supplier:

Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS
UK

Tel: +44 (0)1242 662700 (office hours)

email: sales@cpc-chemicals.co.uk

· Further information obtainable from: Product safety department.

· 1.4 Emergency telephone number:

OHES Environmental

Tel: 01242 300271

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

* SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to GB-CLP

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to GB-CLP The product is classified and labelled according to the GB CLP regulation.

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· **Hazard pictograms**



GHS05

· **Signal word** Warning

· **Hazard statements**

H290 May be corrosive to metals.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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.

· **Additional information:**

Contains biocidal active substance(s): 2-bromo-2-nitropropane-1,3-diol, Benzyl-C12-14-alkyldimethylammonium chlorides

· **The Detergents (Amendment) (EU Exit) Regulations 2020 / Labelling for contents**

phosphonates	<5%
preservation agents ("2-BROMO-2-NITROPROPANE-1,3-DIOL", Benzyl-C12-14-alkyldimethylammonium chlorides)	

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

* SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** An aqueous solution of the substances listed below with multifunctional additives.

· **Dangerous components:**

CAS: 5329-14-6 EINECS: 226-218-8 Index number: 016-026-00-0 Reg.nr.: 01-2119488633-28-XXXX	Sulphamic acid ⚠ Met. Corr. 1, H290; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	10 – < 25%
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CAS: 52-51-7 EINECS: 200-143-0 Index number: 603-085-00-8 Reg.nr.: 01-2119980938-15-XXXX	2-bromo-2-nitropropane-1,3-diol --- ☞ Eye Dam. 1, H318; ☞ Aquatic Acute 1, H400 (M=10); ☠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	0.25 – < 1%
CAS: 85409-22-9 EC number: 939-350-2 Reg.nr.: 01-2119970550-39-XXXX	Benzyl-C12-14-alkyldimethylammonium chlorides Alternative CAS number: 68424-85-1 --- ☞ Skin Corr. 1B, H314; ☞ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ☠ Acute Tox. 4, H302	0.25 – < 1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

* SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- **Information for doctor:** Treat symptomatically and supportively.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **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.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
May react with metals, releasing hydrogen.
In case of fire, the following can be released:
Carbon monoxide (CO)
Chlorine compounds
Sulphur Oxides (SO_x)
Hydrogen bromide
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.

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Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

* SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

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.

6.3 Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible, absorbent material e.g.sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Lime slurry can be used to neutralize material (e.g. 10 - 50% potassium carbonate solution or 10 - 30% sodium carbonate solution).

Wash the area with plenty of water.

6.4 Reference to other sections

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

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: Prevent any seepage into the ground.

Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

Store away from oxidising agents.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

Storage class: 12

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

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

CAS: 5329-14-6 Sulphamic acid

Oral	Long-term systemic effects	5 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	5 mg/kg bw/day (general population)
		10 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	17.4 mg/m ³ (general population)
		70.5 mg/m ³ (worker)

CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol

Oral	Long-term systemic effects	180 µg/kg bw/day (general population)
	Short-term systemic effects	500 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	2 mg/kg bw/day (worker)
	Short-term systemic effects	2.1 mg/kg bw/day (general population)
		6 mg/kg bw/day (worker)
	Long-term systemic effects	700 µg/kg bw/day (general population)
	Long-term local effects	4 µg/kg bw/day (general population)
		8 µg/kg bw/day (worker)
	Short-term local effects	4 µg/kg bw/day (general population)
		8 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	3.5 mg/m ³ (worker)
	Short-term systemic effects	1.8 mg/m ³ (general population)
		10.5 mg/m ³ (worker)
	Long-term local effects	2.5 mg/m ³ (worker)
	Short-term local effects	2.5 mg/m ³ (worker)
	Long-term systemic effects	600 µg/m ³ (general population)
	Long-term local effects	600 µg/m ³ (general population)
	Short-term local effects	600 µg/m ³ (general population)

CAS: 85409-22-9 Benzyl-C12-14-alkyldimethylammonium chlorides

Dermal	Long-term systemic effects	3.1 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	3.06 mg/m ³ (worker)

· PNECs

CAS: 5329-14-6 Sulphamic acid

Freshwater	1.8 mg/L
Freshwater - Intermittent releases	480 µg/L
Marine water	180 µg/L
Sewage Treatment Plant	20 mg/L

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Sediment (freshwater)	8.36 mg/kg
Sediment (marine water)	840 µg/kg
Soil	5 mg/kg
CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol	
Freshwater	1.25 µg/L
Freshwater - Intermittent releases	265 ng/L
Marine water	520 ng/L
Sewage Treatment Plant	430 µg/L
Sediment (freshwater)	21.5 µg/kg
Sediment (marine water)	8.944 µg/kg
Soil	210 µg/kg
CAS: 85409-22-9 Benzyl-C12-14-alkyldimethylammonium chlorides	
Freshwater	120 – 420 ng/L
Freshwater - Intermittent releases	160 ng/L
Marine water	12 – 96 ng/L
Marine Water - Intermittent releases	16 – 207 ng/L
Sewage Treatment Plant	160 µg/L
Sediment (freshwater)	31.9 – 68 mg/kg
Sediment (marine water)	3.19 – 15.75 mg/kg
Soil	1.66 – 6.38 mg/kg

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

• **8.2 Exposure controls**

• **Appropriate engineering controls** No further data; see section 7.

• **Individual protection measures, such as personal protective equipment**

• **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Ensure that eyewash stations and safety showers are close to the workstation location.

Do not carry product impregnated cleaning cloths in trouser pockets.

• **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

• **Hand protection**



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

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

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

• **Material of gloves**

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.

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· **Penetration time of glove material**

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

· **Eye/face protection**



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

· **Body protection:**



Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

· **Environmental exposure controls** Do not allow to enter drains, sewers or watercourses.

· **Risk management measures** The operators shall be instructed adequately.

* SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· Physical state	Liquid
· Colour:	Red
· Odour:	Barely perceptible
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	> 100 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Decomposition temperature:	Not determined.
· pH at 20 °C	2.5 – 3
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	23 hPa (CAS: 7732-18-5 Water)
· Density and/or relative density	
· Density at 20 °C:	1.08 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

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· 9.2 Other information

· Appearance:

· Form: Liquid

· Important information on protection of health and environment, and on safety.

· Ignition temperature: Product is not self-igniting.

· Explosive properties: Product does not present an explosion hazard.

· Solvent content:

· VOC (EC) 0.00 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Void

· Flammable gases Void

· Aerosols Void

· Oxidising gases Void

· Gases under pressure Void

· Flammable liquids Void

· Flammable solids Void

· Self-reactive substances and mixtures Void

· Pyrophoric liquids Void

· Pyrophoric solids Void

· Self-heating substances and mixtures Void

· Substances and mixtures, which emit flammable gases

in contact with water Void

· Oxidising liquids Void

· Oxidising solids Void

· Organic peroxides Void

· Corrosive to metals May be corrosive to metals.

· Desensitised explosives Void

* 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

Exothermic reaction with alkalis

Reacts with oxidising agents.

· 10.4 Conditions to avoid Heat and static discharge.

· 10.5 Incompatible materials: Strong acids and oxidising agents

· 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Chlorine compounds

Hydrogen bromide

Nitrogen oxides (NO_x)

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Sulphur oxides (SO_x)

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

CAS: 5329-14-6 Sulphamic acid

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol

Oral	LD50	500 mg/kg (rat)
Dermal	LD50	1,600 mg/kg (rabbit)

CAS: 85409-22-9 Benzyl-C12-14-alkyldimethylammonium chlorides

Oral	LD50	400 mg/kg (rat)
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- **Primary irritant effect:**

- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/irritation** Causes serious eye irritation.

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **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.

- **Additional toxicological information:**

Inhalation of decomposition products may cause lung oedema. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Attention by a doctor should be considered.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients are listed.

* SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 5329-14-6 Sulphamic acid

EC50 (96 h)	70.3 mg/l (Fish)
EC50 (48 h)	71.6 mg/l (Daphnia)
EC50 (72 h)	48 mg/l (Algae)

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CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol

EC50 (96 h) 2.9 mg/l (Bacteria)

- **12.2 Persistence and degradability** The organic portion of the product is biodegradable.
- **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
- Harmful to aquatic organisms
- Must not reach sewage water or drainage ditch undiluted or unneutralised.
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.

* SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
- Recommended Hierarchy of Controls:
 - Minimise waste;
 - Reuse if not contaminated;
 - Recycle, if possible; or
 - Safe disposal (if all else fails).
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Contact waste processors for recycling information.
- Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.
- **Uncleaned packaging:**
- **Recommendation:**
- Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- Disposal must be made according to official regulations.
- Container remains hazardous when empty. Continue to observe all precautions.
- Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR/RID/ADN, IMDG, IATA** UN3264

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· 14.2 UN proper shipping name · ADR/RID/ADN · IMDG, IATA		UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHAMIC ACID) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHAMIC ACID)
· 14.3 Transport hazard class(es) · ADR/RID/ADN		 · Class · Label
		8 (C1) Corrosive substances. 8
· IMDG, IATA		 · Class · Label
		8 Corrosive substances. 8
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA		III
· 14.5 Environmental hazards:		Not applicable.
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · Hazchem Code: · EMS Number: · Segregation groups · Stowage Category · Stowage Code · Segregation Code		Warning: Corrosive substances. 80 2X F-A,S-B (SGG1) Acids A SW2 Clear of living quarters. SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· 14.7 Maritime transport in bulk according to IMO instruments		Not applicable.
· Transport/Additional information:		
· ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ)		5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code		3 E

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<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHAMIC ACID), 8, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

- **Regulated explosives precursors**

None of the ingredients are listed.

- **Regulated poisons**

None of the ingredients are listed.

- **Reportable explosives precursors**

None of the ingredients are listed.

- **Reportable poisons**

None of the ingredients are listed.

- **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
- **Named dangerous substances - ANNEX I** None of the ingredients are listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Relevant phrases**

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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- **Training hints**

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

- **Department issuing SDS:** Product safety department.

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Met. Corr.1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- *** Data compared to the previous version altered.**