

Safety data sheet

according to 1907/2006/EC, Article 31 as amended

Printing date 02.11.2023

Version number 2

Revision: 12.10.2023

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

- **1.1 Product identifier**
 - **Trade name:** Hot Tub Conditioner
 - **Registration number** Mixture
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 - **Product category** PC37 Water treatment chemicals
 - **Application of the substance / the mixture** Cleaning agent/ Cleaner
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/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:**
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 Regulation (EC) No 1272/2008**



- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
 - **Hazard pictograms** GHS07
 - **Signal word** Warning
 - **Hazard-determining components of labelling:**
Disodium metasilicate
 - **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
 - **Precautionary statements**
P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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- P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
- **Additional information:**
 EUH208 Contains Lavender, Lavandula angustifolia, ext. Linalool, Geranyl acetate, linalyl acetate, dipentene, Eucalyptol, 1-Octen-3-yl acetate. May produce an allergic reaction.
 - **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 6834-92-0 EINECS: 229-912-9 Reg.nr.: 01-2119449811-37-XXXX	Disodium metasilicate ⚠ Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	1%
CAS: 90063-37-9 EINECS: 289-995-2 Reg.nr.: 01-2120746582-51-XXXX	Lavender, Lavandula angustifolia, ext. ⚠ Asp. Tox. 1, H304; ⚠ Eye Irrit. 2, H319; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	0.1 – < 1%
CAS: 78-70-6 EINECS: 201-134-4 Reg.nr.: 01-2119474016-42-XXXX	Linalool ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	0.1 – < 1%
CAS: 105-87-3 EINECS: 203-341-5 Reg.nr.: 01-2119973480-35-XXXX	Geranyl acetate ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	0.1 – < 1%
CAS: 115-95-7 EINECS: 204-116-4 Reg.nr.: 01-2119454789-19-XXXX	linalyl acetate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	0.1 – < 1%

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CAS: 138-86-3 EINECS: 205-341-0	dipentene ⚠ Flam. Liq. 3, H226; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317 Note: C	0.1 – < 0.25%
CAS: 470-82-6 EINECS: 207-431-5 Reg.nr.: 01-2119967772-24-XXXX	Eucalyptol ⚠ Flam. Liq. 3, H226; ⚠ Skin Sens. 1B, H317	0.1 – < 1%
CAS: 2442-10-6 EINECS: 219-474-7	1-Octen-3-yl acetate ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	0.1 – < 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**
Formation of toxic gases is possible during heating or in case of fire.
- **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.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **6.2 Environmental precautions:**
 - Do not allow to penetrate the ground/soil.
 - Do not allow to enter sewers/ surface or ground water.
- **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.
 - Ensure adequate ventilation.
- **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**
 - Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.
 - 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:**
 - Store away from oxidising agents.
 - Store away from metals.
 - Store away from foodstuffs.
 - **Further information about storage conditions:**
 - Protect from frost.
 - Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 12
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see section 7.

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· 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

6834-92-0 Disodium metasilicate

Oral	DNEL Long-term systemic effects	740 µg/kg bw/day (general population)
Dermal	DNEL Long-term systemic effects	740 µg/kg bw/day (general population) 1,490 µg/kg bw/day (worker)
Inhalative	DNEL Long-term systemic effects	1.55 mg/m ³ (general population) 6.22 mg/m ³ (worker)

90063-37-9 Lavender, *Lavandula angustifolia*, ext.

Oral	DNEL Long-term systemic effects	89.9 µg/kg bw/day (general population)
Dermal	DNEL Long-term systemic effects	88.9 µg/kg bw/day (general population) 249 µg/kg bw/day (worker)
Inhalative	DNEL Long-term systemic effects	132 µg/m ³ (general population) 877 µg/m ³ (worker)

78-70-6 Linalool

Oral	DNEL Long-term systemic effects	2.49 mg/kg bw/day (general population)
Dermal	DNEL Long-term systemic effects	1.25 mg/kg bw/day (general population) 3.5 mg/kg bw/day (worker)
	DNEL Long-term local effects	1.5 mg/kg bw/day (general population) 3 mg/kg bw/day (worker)
	DNEL Short-term local effects	1.5 mg/kg bw/day (general population) 3 mg/kg bw/day (worker)
Inhalative	DNEL Long-term systemic effects	4.33 mg/m ³ (general population) 24.58 mg/m ³ (worker)

105-87-3 Geranyl acetate

Oral	DNEL Long-term systemic effects	8.9 mg/kg bw/day (general population)
Dermal	DNEL Long-term systemic effects	17.75 mg/kg bw/day (general population) 35.5 mg/kg bw/day (worker)
Inhalative	DNEL Long-term systemic effects	15.4 mg/m ³ (general population) 62.59 mg/m ³ (worker)

115-95-7 linalyl acetate

Oral	DNEL Long-term systemic effects	200 µg/kg bw/day (general population)
Dermal	DNEL Long-term systemic effects	1.25 mg/kg bw/day (general population) 2.5 mg/kg bw/day (worker)
	DNEL Long-term local effects	236.2 µg/kg bw/day (general population) 236.2 µg/kg bw/day (worker)
	DNEL Short-term local effects	236.2 µg/kg bw/day (general population)

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Inhalative	DNEL Long-term systemic effects	236.2 µg/kg bw/day (worker) 680 µg/m ³ (general population) 2,750 µg/m ³ (worker)
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470-82-6 Eucalyptol

Oral	DNEL Long-term systemic effects	600 mg/kg bw/day (general population)
Dermal	DNEL Long-term systemic effects	1 mg/kg bw/day (general population) 2 mg/kg bw/day (worker)
Inhalative	DNEL Long-term systemic effects	1.74 mg/m ³ (general population) 7.05 mg/m ³ (worker)

· PNECs

6834-92-0 Disodium metasilicate

PNEC Freshwater	7.5 mg/L
PNEC Freshwater - Intermittent releases	7.5 mg/L
PNEC Marine water	1 mg/L
PNEC Sewage Treatment Plant	1,000 mg/L

90063-37-9 Lavender, *Lavandula angustifolia*, ext.

PNEC Freshwater	290 – 58,000 ng/L
PNEC Freshwater - Intermittent releases	2.9 – 580 µg/L
PNEC Marine water	29 – 5,800 ng/L
PNEC Sewage Treatment Plant	200 – 10,000 µg/L
PNEC Sediment (freshwater)	109 – 1,130 µg/kg
PNEC Sediment (marine water)	10.9 – 113 µg/kg
PNEC Soil	21.8 – 191 µg/kg
PNEC Secondary poisoning	7.8 mg/kg food

78-70-6 Linalool

PNEC Freshwater	200 µg/L
PNEC Freshwater - Intermittent releases	2 mg/L
PNEC Marine water	20 µg/L
PNEC Sewage Treatment Plant	10 mg/L
PNEC Sediment (freshwater)	2.22 mg/kg
PNEC Sediment (marine water)	222 µg/kg
PNEC Soil	327 µg/kg
PNEC Secondary poisoning	7.8 mg/kg food

105-87-3 Geranyl acetate

PNEC Freshwater	3.72 µg/L
PNEC Freshwater - Intermittent releases	37.2 µg/L
PNEC Marine water	372 ng/L
PNEC Sewage Treatment Plant	8 mg/L

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PNEC Sediment (freshwater)	442 µg/kg
PNEC Sediment (marine water)	44.2 µg/kg
PNEC Soil	85.9 µg/kg
115-95-7 linalyl acetate	
PNEC Freshwater	11 µg/L
PNEC Freshwater - Intermittent releases	110 µg/L
PNEC Marine water	1.1 µg/L
PNEC Sewage Treatment Plant	1 mg/L
PNEC Sediment (freshwater)	609 µg/kg
PNEC Sediment (marine water)	60.9 µg/kg
PNEC Soil	115 µg/kg
470-82-6 Eucalyptol	
PNEC Freshwater	57 µg/L
PNEC Freshwater - Intermittent releases	570 µg/L
PNEC Marine water	5.7 µg/L
PNEC Sewage Treatment Plant	10 mg/L
PNEC Sediment (freshwater)	1.425 mg/kg
PNEC Sediment (marine water)	142.5 µg/kg
PNEC Soil	250 µg/kg
PNEC Secondary poisoning	40 mg/kg food

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

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

Do not eat or drink while working.

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.

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

· **Protection of hands:**



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

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application.

· **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 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:**



Impervious protective clothing

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

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

· **Form:** Fluid

· **Colour:** Clear

· **Odour:** Mild

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 11.5 – 12.5

· **Change in condition**

· **Melting point/freezing point:** 0 °C

· **Initial boiling point and boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not self-igniting.

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

· **Explosion limits:**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Vapour pressure at 20 °C:** 23 hPa

· **Density at 20 °C:** 1 g/cm³

· **Relative density** Not determined.

· **Vapour density** Not determined.

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· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: VOC (EC)	0.15 %
· 9.2 Other information	NOTE: The physical data presented above are typical values and should not be construed as a specification.

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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Finely powdered metals.
Strong oxidising agents.
- **10.6 Hazardous decomposition products:** Metal oxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

6834-92-0 Disodium metasilicate

Dermal	LD50	> 5,000 mg/kg (rabbit)
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78-70-6 Linalool

Oral	LD50	> 2,000 mg/kg (rat)
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Dermal	LD50	> 5,000 mg/kg (rabbit)
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105-87-3 Geranyl acetate

Oral	LD50	> 2,000 mg/kg (rat)
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Dermal	LD50	> 5,000 mg/kg (rabbit)
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115-95-7 linalyl acetate

Oral	LD50	> 5,000 mg/kg (rat)
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Dermal	LD50	> 5,000 mg/kg (rabbit)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin 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.
- **Subacute to chronic toxicity:** Prolonged or repeated skin contact may irritate and cause dermatitis.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

6834-92-0 Disodium metasilicate

EC50 (96 h)	1,700 mg/l (Bacteria)
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78-70-6 Linalool

EC50 (96 h)	59 mg/l (Bacteria)
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105-87-3 Geranyl acetate

EC50 (96 h)	14.1 mg/l (Bacteria)
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115-95-7 linalyl acetate

EC50 (96 h)	15 mg/l (Bacteria)
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- **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.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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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:

Disposal must be made according to official regulations.

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

· ADR/RID/ADN, ADN, IMDG, IATA Void

14.2 UN proper shipping name

· ADR/RID/ADN, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

· ADR/RID/ADN, ADN, IMDG, IATA
· Class Void

14.4 Packing group

· ADR/RID/ADN, IMDG, IATA Void

14.5 Environmental hazards:

· **Marine pollutant:** No

14.6 Special precautions for user

Not applicable.

**14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code**

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

UN "Model Regulation":

Void

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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 is listed.

- **Regulated poisons**

None of the ingredients is listed.

- **Reportable explosives precursors**

None of the ingredients is listed.

- **Reportable poisons**

None of the ingredients is listed.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **National regulations:**

- **Information about limitation of use:**

Class	Share in %
NK	0.2

- **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.

- **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

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
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.**

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