

Safety data sheet

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

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** Water treatment
- **Uses advised against** None identified

- **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**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
- **2.2 Label elements**
- **Labelling according to GB-CLP** 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.

(Contd. on page 2)

— GB —

Safety data sheet

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 1)

H319 Causes serious eye irritation.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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, dl-Limonene (racemic), 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 Mixtures

 • **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 6834-92-0 EINECS: 229-912-9 Index number: 014-010-00-8 Reg.nr.: 01-2119449811-37-XXXX	Disodium metasilicate Alternative CAS number: 10213-79-3 ⚠ 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 Index number: 603-235-00-2 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%
CAS: 138-86-3 EINECS: 205-341-0 Index number: 601-029-00-7	dl-Limonene (racemic) ⚠ 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%

(Contd. on page 3)

Safety data sheet

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 2)

CAS: 2442-10-6 EINECS: 219-474-7	1-Octen-3-yl acetate ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317 ATE: LD50 oral: 500 mg/kg	0.1 – < 1%
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· **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**
 In case of fire, the following can be released:
 Carbon monoxide and carbon dioxide
 Nitrogen oxides (NO_x)
 Silicon compounds
- **5.3 Advice for firefighters**
- **Protective equipment:**
 Wear self-contained respiratory protective device.
 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.

— GB —

(Contd. on page 4)

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 3)

* SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.

· **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**

· **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: 6834-92-0 Disodium metasilicate

Oral	Long-term systemic effects	740 µg/kg bw/day (general population)
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(Contd. on page 5)

Safety data sheet

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 4)

Dermal	Long-term systemic effects	740 µg/kg bw/day (general population) 1,490 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	1.55 mg/m ³ (general population) 6.22 mg/m ³ (worker)
CAS: 90063-37-9 Lavender, <i>Lavandula angustifolia</i>, ext.		
Oral	Long-term systemic effects	89.9 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	88.9 µg/kg bw/day (general population) 249 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	132 µg/m ³ (general population) 877 µg/m ³ (worker)
CAS: 78-70-6 linalool		
Oral	Long-term systemic effects	2.49 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	1.25 mg/kg bw/day (general population) 3.5 mg/kg bw/day (worker)
	Long-term local effects	1.5 mg/kg bw/day (general population) 3 mg/kg bw/day (worker)
	Short-term local effects	1.5 mg/kg bw/day (general population) 3 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	4.33 mg/m ³ (general population) 24.58 mg/m ³ (worker)
CAS: 105-87-3 Geranyl acetate		
Oral	Long-term systemic effects	8.9 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	17.75 mg/kg bw/day (general population) 35.5 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	15.4 mg/m ³ (general population) 62.59 mg/m ³ (worker)
CAS: 115-95-7 linalyl acetate		
Oral	Long-term systemic effects	200 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	1.25 mg/kg bw/day (general population) 2.5 mg/kg bw/day (worker)
	Long-term local effects	236.2 µg/kg bw/day (general population) 236.2 µg/kg bw/day (worker)
	Short-term local effects	236.2 µg/kg bw/day (general population) 236.2 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	680 µg/m ³ (general population) 2,750 µg/m ³ (worker)
CAS: 470-82-6 Eucalyptol		
Oral	Long-term systemic effects	600 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	1 mg/kg bw/day (general population) 2 mg/kg bw/day (worker)

(Contd. on page 6)

Safety data sheet

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 5)

Inhalative	Long-term systemic effects	1.74 mg/m ³ (general population) 7.05 mg/m ³ (worker)
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· PNECs
CAS: 6834-92-0 Disodium metasilicate

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

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

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

CAS: 78-70-6 linalool

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

CAS: 105-87-3 Geranyl acetate

Freshwater	3.72 µg/L
Freshwater - Intermittent releases	37.2 µg/L
Marine water	372 ng/L
Sewage Treatment Plant	8 mg/L
Sediment (freshwater)	442 µg/kg
Sediment (marine water)	44.2 µg/kg
Soil	85.9 µg/kg

CAS: 115-95-7 linalyl acetate

Freshwater	11 µg/L
Freshwater - Intermittent releases	110 µg/L
Marine water	1.1 µg/L
Sewage Treatment Plant	1 mg/L
Sediment (freshwater)	609 µg/kg

(Contd. on page 7)

Safety data sheet

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 6)

Sediment (marine water)	60.9 µg/kg
Soil	115 µg/kg
CAS: 470-82-6 Eucalyptol	
Freshwater	57 µg/L
Freshwater - Intermittent releases	570 µg/L
Marine water	5.7 µg/L
Sewage Treatment Plant	10 mg/L
Sediment (freshwater)	1.425 mg/kg
Sediment (marine water)	142.5 µg/kg
Soil	250 µg/kg
Secondary poisoning	40 mg/kg food

· **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.

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.

· **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.

· **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).

(Contd. on page 8)

Safety data sheet

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 7)

· **Body protection:**



Impervious protective 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:	Clear
· Odour:	Mild
· Odour threshold:	Not determined.
· Melting point/freezing point:	0 °C
· Boiling point or initial boiling point and boiling range	Undetermined.
· 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	11.5 – 12.5
· 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
· Density and/or relative density	
· Density at 20 °C:	1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· **9.2 Other information**

NOTE: The physical data presented above are typical values and should not be construed as a specification.

· **Appearance:**

· **Form:** Fluid

· **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)** 0.15 %

(Contd. on page 9)

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 9)

CAS: 78-70-6 linalool		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
CAS: 105-87-3 Geranyl acetate		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
CAS: 115-95-7 linalyl acetate		
Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
CAS: 470-82-6 Eucalyptol		
Oral	LD50	> 4,500 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

- **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.
- **Subacute to chronic toxicity:** Prolonged or repeated skin contact may irritate and cause dermatitis.
- **Additional toxicological information:** Repeated or prolonged skin contact may induce sensitisation.
- **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: 6834-92-0 Disodium metasilicate
EC50 (96 h) 1,700 mg/l (Bacteria)
CAS: 78-70-6 linalool
EC50 (96 h) 59 mg/l (Bacteria)
CAS: 105-87-3 Geranyl acetate
EC50 (96 h) 14.1 mg/l (Bacteria)
CAS: 115-95-7 linalyl acetate
EC50 (96 h) 15 mg/l (Bacteria)
CAS: 470-82-6 Eucalyptol
EC50 (72 h) 74 mg/l (algae)

(Contd. on page 11)

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 10)

EC50 (3 h)	100 mg/L (microorganisms)
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- **12.2 Persistence and degradability** The organic portion of the product is biodegradable.
- **12.3 Bioaccumulative potential** Contains components with the potential 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**
- **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.

* 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.
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

- | | |
|---|----------------|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR/RID/ADN, ADN, IMDG, IATA | Not applicable |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR/RID/ADN, ADN, IMDG, IATA | Not applicable |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR/RID/ADN, ADN, IMDG, IATA · Class | Not applicable |

(Contd. on page 12)

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 11)

· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Not applicable

* 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.

- **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.

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

- **Relevant phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

(Contd. on page 13)

Safety data sheet

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

Printing date 25.02.2025

Version number 3 (replaces version 2)

Revision: 25.02.2025

Trade name: Hot Tub Conditioner

(Contd. of page 12)

- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- 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.

· 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
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- 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.