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

· **1.1 Product identifier**

· **Trade name: Hot Tub Flush**

· **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
· **Uses advised against**
Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).
Processes involving extreme heat use advised against.

· **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:**
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**
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
· **Additional information:**
The classification as Met. Corr.1 is not required as the product contains corrosion inhibitors.

· **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:**
Amides, tall-oil fatty, N,N-di-Me

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· **Hazard statements**
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
· **Precautionary statements**
P261 Avoid breathing mist/vapours/spray.
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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local regulations.

· **The Detergents (Amendment) (EU Exit) Regulations 2020 / Labelling for contents**	
non-ionic surfactants, phosphates	<5%

· **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: 7664-93-9 EINECS: 231-639-5 Index number: 016-020-00-8 Reg.nr.: 01-2119458838-20-XXXX	Sulphuric acid Met. Corr.1, H290; Skin Corr. 1A, H314 Note: B Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 % Met. Corr.1; H290: C ≥ 0.3 %	2.5 – < 5%
CAS: 78330-20-8 EC number: 616-607-4	Alcohols, C9-11-iso-, C10-rich, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302 ATE: LD50 oral: 1,360 mg/kg	1 – 2.5%
CAS: 68308-74-7 EINECS: 269-665-4 Reg.nr.: 01-2119983524-29-XXXX	Amides, tall-oil fatty, N,N-di-Me Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Skin Sens. 1B, H317	1 – < 2.5%
CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60-XXXX	Dipropylene glycol monomethyl ether substance with a workplace exposure limit	1 – 2.5%
CAS: 160901-09-7 NLP: 500-446-0 Reg.nr.: 01-2119979533-26-XXXX	Alcohols, C9-11, branched and linear, ethoxylated Eye Irrit. 2, H319; Aquatic Chronic 3, H412	0.1 – 1%

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

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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.
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 (NOx)
Phosphorous oxides
Sulphur Oxides (SOx)
· **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.

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.
Wear protective equipment. Keep unprotected persons away.

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· **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.
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**
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:**	
CAS: 7664-93-9 Sulphuric acid	
WEL	Long-term value: 0.05* mg/m³ *mist: defined as thoracic fraction
CAS: 34590-94-8 Dipropylene glycol monomethyl ether	
WEL	Long-term value: 308 mg/m³, 50 ppm Sk

· **DNELs**		
CAS: 7664-93-9 Sulphuric acid		
Inhalative	Long-term local effects	50 µg/m³ (worker)

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	Short-term local effects	100 µg/m³ (worker)
CAS: 68308-74-7 Amides, tall-oil fatty, N,N-di-Me		
Oral	Long-term systemic effects	100 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	100 µg/kg bw/day (general population)
		200 µg/kg bw/day (worker)
	Long-term local effects	30 µg/kg bw/day (general population)
		61 µg/kg bw/day (worker)
	Short-term local effects	30 µg/kg bw/day (general population)
		61 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	150 µg/m³ (general population)
		600 µg/m³ (worker)
CAS: 34590-94-8 Dipropylene glycol monomethyl ether		
Oral	Long-term systemic effects	36 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	121 mg/kg bw/day (general population)
		283 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	37.2 mg/m³ (general population)
		308 mg/m³ (worker)
CAS: 160901-09-7 Alcohols, C9-11, branched and linear, ethoxylated		
Oral	Long-term systemic effects	3 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	150 mg/kg bw/day (general population)
		420 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	7.84 mg/m³ (general population)
		44.4 mg/m³ (worker)

· **PNECs**

CAS: 68308-74-7 Amides, tall-oil fatty, N,N-di-Me	
Freshwater	6.4 µg/L
Marine water	640 ng/L
Sewage Treatment Plant	100 mg/L
Sediment (freshwater)	273.3 mg/kg
Sediment (marine water)	27.33 mg/kg
Soil	54.64 mg/kg
Secondary poisoning	66.667 mg/kg food
CAS: 34590-94-8 Dipropylene glycol monomethyl ether	
Freshwater	19 mg/L
Freshwater - Intermittent releases	190 mg/L
Marine water	1.9 mg/L
Sewage Treatment Plant	4,168 mg/L
Sediment (freshwater)	70.2 mg/kg
Sediment (marine water)	7.02 mg/kg
Soil	2.74 mg/kg

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CAS: 160901-09-7 Alcohols, C9-11, branched and linear, ethoxylated	
Freshwater	10.7 µg/L
Freshwater - Intermittent releases	19.5 µg/L
Marine water	1.07 µg/L
Marine Water - Intermittent releases	1.95 µg/L
Sewage Treatment Plant	10 mg/L
Sediment (freshwater)	73.9 µg/kg
Sediment (marine water)	7.39 µg/kg
Soil	8.6 µg/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.
Do not eat or drink while working.
Take note of assigned Workplace Exposure Limits.
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).

· **Body protection:**

Impervious protective clothing

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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:**	Light brown
· **Odour:**	Mild
· **Melting point/freezing point:**	Undetermined.
· **Boiling point or initial boiling point and boiling range**	100 °C (CAS: 7732-18-5 Water)
· **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**	4 – 6
· **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:**	Not determined.
· **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)**	1.54 %
· **Change in condition**	
· **Evaporation rate**	Not determined.
· **Information with regard to physical hazard classes**	Not applicable

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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** Heat and static discharge.
· **10.5 Incompatible materials:**
Finely powdered metals.
Strong oxidising agents.
· **10.6 Hazardous decomposition products:**
Phosphorus compounds
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Sulphur oxides (SOx)

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: 7664-93-9 Sulphuric acid		
Oral	LD50	2,140 mg/kg (rat)
CAS: 78330-20-8 Alcohols, C9-11-iso-, C10-rich, ethoxylated		
Oral	LD50	1,360 mg/kg (ATE)
Dermal	LD50	> 2,000 mg/kg (rat)
CAS: 68308-74-7 Amides, tall-oil fatty, N,N-di-Me		
Oral	LD50	> 5,000 mg/kg (rat)
CAS: 34590-94-8 Dipropylene glycol monomethyl ether		
Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rab)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **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.

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· **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: 7664-93-9 Sulphuric acid	
EC50 (96 h)	16 mg/l (Fish)
EC50 (72 h)	> 100 mg/l (Daphnia)
CAS: 78330-20-8 Alcohols, C9-11-iso-, C10-rich, ethoxylated	
EC50 (96 h)	10 – 100 mg/l (Bacteria)
CAS: 68308-74-7 Amides, tall-oil fatty, N,N-di-Me	
EC50 (72 h)	32 mg/l (algae)
EC50 (3 h)	1,000 mg/L (microorganisms)
CAS: 34590-94-8 Dipropylene glycol monomethyl ether	
EC50 (96 h)	> 1,000 mg/l (Bacteria)

· **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 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely 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.

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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

· **14.1 UN number or ID number**	
· **ADR, ADN, IMDG, IATA**	Not applicable
· **14.2 UN proper shipping name**	
· **ADR, ADN, IMDG, IATA**	Not applicable
· **14.3 Transport hazard class(es)**	
· **ADR, ADN, IMDG, IATA**	
· **Class**	Not applicable
· **14.4 Packing group**	
· **ADR, 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**		
CAS: 7664-93-9	Sulphuric acid	15%
CAS: 7664-38-2	Phosphoric acid	30%

· **Regulated poisons**
None of the ingredients are listed.

· **Reportable explosives precursors**
None of the ingredients are listed.

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· **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.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H411 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:**
UK- REACH: The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
GB- CLP: Retained GB CLP Regulation (EU) No. 1272/2008 as amended for Great Britain on the Classification, Labelling and Packaging of Chemicals.
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. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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