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Safety data sheet according to 1907/2006/EC, Article 31 as amended

Printing date 02.11.2023

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Version number 1

Revision: 04.10.2023

	entifier
Trade name: <u>H</u>	
Registration nu	
	entified uses of the substance or mixture and uses advised against ry PC37 Water treatment chemicals
	the substance / the mixture Cleaning agent/ Cleaner
1.3 Details of th	ne supplier of the safety data sheet
Manufacturer/	
Complete Pool OUnit 2, The Parl	
Stoke Orchard	
Bishops Cleeve	
Gloucestershire	
GL52 7RS	
UK	
Tel: +44 (0)124	2 662700 (office hours)
	vc-chemicals.co.uk
Further inform	nation obtainable from: Product safety department.
	telephone number:
Members of the	public seeking specific information on poisons should contact:
	Wales: NHS 111 - dial 111
0	
In Scotland: NH	
0	
In Scotland: NH	
In Scotland: NH	IS 24 - dial 111 : Hazards identification
In Scotland: NH SECTION 2 2.1 Classification	IS 24 - dial 111 : Hazards identification on of the substance or mixture
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In Scotland: NH SECTION 2 2.1 Classification Classification a Classification a Eye Irrit. 2 H31 2.2 Label eleme Labelling account The product is c Hazard pictogr Signal word W Hazard statement H319 Causes se Precautionary P264 P280	IS 24 - dial 111 : Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008 I Gauses serious eye irritation. ents rding to Regulation (EC) No 1272/2008 Hassified and labelled according to the GB CLP regulation. rams GHS07 arning ents rious eye irritation. statements Wash thoroughly after handling. Wear eye protection / face protection.



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· Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

- · 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: 7664-93-9	Sulphuric acid	2.5 - < 5%
EINECS: 231-639-5	Skin Corr. 1A, H314	
Reg.nr.: 01-2119458838-20-XXXX	Note: B	
	Specific concentration limits: Skin Corr. 1A; H314: $C \ge 15$ %	
	Skin Irrit. 2; H315: 5 % ≤ C < 15 %	
	Eye Irrit. 2; H319: 5 % ≤ C < 15 %	
CAS: 61827-42-7	Isodecanol, ethoxylated	1 – 2.5%
EC number: 612-519-5	♦ Eye Dam. 1, H318; Acute Tox. 4, H302	
CAS: 112-34-5	2-(2-Butoxyethoxy)ethanol	1 - 2.5%
EINECS: 203-961-6	() Eye Irrit. 2, H319	
Reg.nr.: 2119475104-44-XXXX		
CAS: 160901-09-7	Alcohols, C9-11, branched and linear, ethoxylated	0.1 – 1%
NLP: 500-446-0	Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
Reg.nr.: 01-2119979533-26-XXXX		

· 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.

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· 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.
- \cdot 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: Sulphur Oxides (SOx)

Carbon monoxide (CO) Phosphorous oxides

- 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.

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 product to reach sewage system or any water course in the undiluted form.

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.

• 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.

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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.

· Ingredients with limit values that require monitoring at the workplace:			
7664-93-9	Sulphuric acid		
	g-term value: 0.05* mg/m ³		
*mi	st: defined as thoracic fraction		
112-34-52	2-(2-Butoxyethoxy)ethanol		
	WEL Short-term value: 101.2 mg/m ³ , 15 ppm		
Lon	Long-term value: 67.5 mg/m ³ , 10 ppm		
DNELs			
7664-93-9 Sulphuric acid			
Inhalative	DNEL Long-term local effects	50 μg/m ³ (worker)	
	DNEL Short-term local effects	100 μg/m ³ (worker)	
112-34-5 2-(2-Butoxyethoxy)ethanol			
Oral	DNEL Long-term systemic effects	6.25 mg/kg bw/day (general population)	
Inhalative	DNEL Long-term local effects	67.5 mg/m ³ (worker)	
	DNEL Short-term local effects	101.2 mg/m ³ (worker)	
160901-09-7 Alcohols, C9-11, branched and linear, ethoxylated			
Oral	DNEL Long-term systemic effects	3 mg/kg bw/day (general population)	
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Dermal DNEL Long-term	m systemic effects	150 mg/kg bw/day (general population)	
		420 mg/kg bw/day (worker)	
Inhalative DNEL Long-term	m systemic effects	7.84 mg/m ³ (general population)	
		44.4 mg/m ³ (worker)	
PNECs			
112-34-5 2-(2-Butoxyetho	xy)ethanol		
PNEC Freshwater	1	.1 mg/L	
PNEC Freshwater - Intermi	ttent releases 1	1 mg/L	
PNEC Marine water	1	10 µg/L	
PNEC Sediment (freshwate	r) 4	.4 mg/kg	
PNEC Sediment (marine water)		40 µg/kg	
PNEC Soil	3	20 µg/kg	
PNEC Secondary poisoning	g 5	6 mg/kg food	
160901-09-7 Alcohols, C9-	11, branched and	d linear, ethoxylated	
PNEC Freshwater	1	0.7 μg/L	
PNEC Freshwater - Intermi	ttent releases 1	9.5 μg/L	
PNEC Marine water	1	.07 μg/L	
PNEC Marine Water - Intermittent releases		.95 μg/L	
PNEC Sewage Treatment P	lant 1	0 mg/L	
PNEC Sediment (freshwate	r) 7	3.9 μg/kg	
PNEC Sediment (marine wa	ater) 7	.39 μg/kg	
PNEC Soil	8	.6 μg/kg	

· 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.
- 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.

· 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 (Contd. on page 6)

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· 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 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.

9.1 Information on basic physical a	nd chemical properties	
General Information		
Appearance: Form:	Fluid	
Colour:	Light brown	
Odour:	Mild	
Odour threshold:	Not determined.	
pH-value at 20 °C:	4 – 6	
Change in condition Melting point/freezing point: Initial boiling point and boiling ra	Undetermined. ange: 100 °C	
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.	



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· Vapour pressure at 20 °C:	23 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC (EC)	1.10 %
• 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.
- \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.
- \cdot 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:** Phosphorus compounds Carbon monoxide and carbon dioxide Sulphur oxides (SOx)

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:

ATE (Acute Toxicity Estimates)

Oral LD50 22,727 mg/kg

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7664-93-9 Sulphuric acid Oral |LD50|> 2,000 mg/kg (rat)

112-34-5 2-(2-Butoxyethoxy)ethanol

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

Dermal LD50 > 2,000 mg/kg (rabbit)

· Primary irritant effect:

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation

Causes serious eye irritation.

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

· Additional toxicological information:

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- \cdot 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.
- \cdot 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:

7664-93-9 Sulphuric acid

EC50 (96 h) > 100 mg/l (Bacteria)

112-34-5 2-(2-Butoxyethoxy)ethanol

EC50 (96 h) > 100 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.
- · 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.

- \cdot 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation
- Recommended Hierarchy of Controls:
- Minimise waste;



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- 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

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

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

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· National regulations:

· Information about limitation of use:

Class Share in %

NK 1.1

· 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 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 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 \cdot * Data compared to the previous version altered.

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Annex: Exposure scenario • **Product category** PC37 Water treatment chemicals · Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet. · Conditions of use · Duration and frequency 5 workdays/week. · Physical parameters · Physical state Fluid · Concentration of the substance in the mixture The substance is main component. · Other operational conditions · Other operational conditions affecting environmental exposure No special measures required. · Other operational conditions affecting worker exposure Avoid contact with eyes. Avoid contact with the skin. · Other operational conditions affecting consumer exposure No special measures required. Keep out of the reach of children. • Other operational conditions affecting consumer exposure during the use of the product Not applicable. · Risk management measures · Worker protection · Organisational protective measures No special measures required. · Technical protective measures Ensure that suitable extractors are available on processing machines · Personal protective measures Do not inhale gases / fumes / aerosols. Avoid contact with the skin. Avoid contact with the eyes. Tightly sealed goggles conforming to EN166. 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 · Measures for consumer protection Ensure adequate labelling. Keep locked up and out of the reach of children. · Environmental protection measures · Water No special measures required. Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required. · Disposal measures Disposal must be made according to official regulations. Ensure that waste is collected and contained. · Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system. • Waste type Partially emptied and uncleaned packaging · Exposure estimation · Consumer Not relevant for this Exposure Scenario. · Guidance for downstream users No further relevant information available.