



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

- 1.1 Product Identifier**
 Product Name : Tile Liner Cleaner
 Datasheet Number : SDS048
 Unique Formula Identifier: H440-50SK-Q005-5QPW
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
 Product category PC35 Washing and cleaning products (including solvent based products)
 Application of the substance / the mixture Tile and line cleaner for the removal of waterline deposits in swimming pools.
 Uses advised against: Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).
 Any use involving aerosol formation or vapour release in excess of the assigned WEL where workers are exposed without suitable RPE.
- 1.3 Details of the supplier of the safety data sheet**
 Name of Supplier Isell Ltd
 Address of Supplier Unit 5 Penrose House
 Treleigh Ind Est
 Redruth
 Telephone TR16 4DE
 E-mail (competent person) info@pure-spa.co.uk
 01326 371482
- 1.4 Emergency Telephone Number**
 Emergency Phone No 0800 043 0891 (Technical) 24 Hours a day
 0800 043 0892 (Emergency)
 Languages Spoken English
 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
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 Skin Corr 1B H314 Causes severe skin burns and eye damage.
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 Eye Irrit 2 H319 Causes serious eye irritation.
- Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

2.2	Label elements Hazard Pictograms Signal Word(s) Hazard-determining components of labelling:	According to Regulation (EC) No. 1272/2008 (CLP) GHS05 Danger Alkyl(C12-16)dimethylbenzylammonium chloride
	Hazard Statement(s)	H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects
	Precautionary statements	P260 Do not breathe mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
2.3	Other hazards Results of PBT and vPvB assessment PBT: vPvB:	Not applicable. Not applicable.

SECTION 3 : Composition/Information on Ingredients

3.1	Chemical characterisation: Description:	Mixtures Mixture of substances listed below with nonhazardous additions.
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Dangerous Components

Substance	CAS No	EC No	EINECS No	%W/W
Phosphoric acid	7664-38-2		231-633-2	10-<25%
Isopropanol	67-63-0		200-661-7	2.5-<10%
Alkyl(C12-16)dimethylbenzylammonium chloride	68424-85-1		270-325-2	1%

3.1 cont..

Polydiallyldimethylammonium chloride	Aquatic Chronic 3, H412
Phosphoric acid	Skin Corr. 1B, H314 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 10 % Eye Irrit. 2; H319: C ≥ 10 %
Isopropanol	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
Alkyl(C12-16)dimethylbenzylammonium chloride	Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302

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:	
	After inhalation:	Immediately remove any clothing soiled by the product. 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, then 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	Corrosive damage to gastro-intestinal tract.
	Hazards	Danger of gastric perforation.
4.3	Indication of any immediate medical attention and special treatment needed	No further relevant information available.

SECTION 5 : Firefighting Measures
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5.1	Extinguishing Media :	
	Suitable Extinguishing Agents:	CO ₂ , powder or water spray. Fight larger fires with water spray. Use fire extinguishing methods suitable to surrounding conditions.
	Unsuitable Extinguishing Media:	Water with full jet
5.2	Special hazards arising from the substance or mixture :	During heating or in case of fire poisonous gases are produced. Corrosive liquid.

5.3 Advice for Firefighters :	Wear self-contained respiratory protective device. Wear fully protective suit. Do not inhale explosion gases or combustion gases
Additional information	Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6 : Accidental Release Measures
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6.1 Personal precautions, protective equipment and emergency procedures :	Ensure adequate ventilation Wear protective clothing. Wear protective equipment. Keep unprotected persons away.
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. Inform respective authorities in case of seepage into water course or sewage system.
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles. Use neutralising agent.
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.
Handling:	Do not mix with other products.
Information about fire - and explosion protection:	Keep respiratory protective device available.
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.
Further information about storage conditions:	Protect from frost. Store in a bunded area. Store in cool, dry conditions in well sealed receptacles.

7.2 cont..

Storage class: 8B7.3 **Specific end use(s)** No further relevant information available.

SECTION 8 : Exposure Controls/Personal Protection
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8.1 **Control Parameters****Additional information about design of technical facilities:** No further data; see item 7.**Ingredients with limit values that require monitoring at the workplace:**

7664-38-2 Phosphoric acid

WEL

Short-term value: 2 mg/m³Long-term value: 1 mg/m³

67-63-0 Isopropanol

WEL

Short-term value: 1250 mg/m³, 500 ppmLong-term value: 999 mg/m³, 400 ppm**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, drink, smoke or sniff 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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Protective gloves

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 Protection

Tightly sealed goggles

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:	Liquid
Colour:	Colourless
Odour:	Mild
Odour threshold:	Not determined.
pH-value at 20 °C:	3.
Change in condition	
Melting point/freezing point:	Undetermined.
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:	Not determined.
Density at 20 °C:	1.1 g/cm ³
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:	

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
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10.1	Reactivity	No further relevant information available.
10.2	Chemical stability Thermal decomposition / conditions to be avoided:	To avoid thermal decomposition do not overheat. No decomposition if used and stored according to specifications
10.3	Possibility of hazardous reactions:	No dangerous reactions known.
10.4	Conditions to avoid:	Do not mix with other chemical formulations in their concentrated form.
10.5	Incompatible materials:	Strong bases. Finely powdered metals. Amines
10.6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide Phosphorus compounds Nitrogen oxides (NOx)

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	79,500 mg/kg (rat)
7664-38-2 Phosphoric acid	Dermal	LD50	2,740 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation Causes severe skin burns and eye damage.

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:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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: No further relevant information available

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.

Ecotoxicological effects:

Harmful to fish

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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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;

Reuse if not contaminated;

Recycle, if possible; or

Safe disposal (if all else fails).

Contact waste processors for recycling information.

Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

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.

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating.

Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Recommended cleansing agents :

Water, if necessary together with cleansing agents

SECTION 14 : Transport Information

14.1 UN-Number

ADR, IMDG, IATA

UN3264**14.2 UN proper shipping name**

ADR,

UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,
N. O. S. (Alkyl(C12 -16) dimethylbenzylammonium c
hloride, PHOSPHORIC ACID, SOLUTION)

IMDG, IATA

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Alkyl(C12-16)dimethylbenzylammonium chloride,
PHOSPHORIC ACID, SOLUTION)**14.3 Transport hazard class(es)**

ADR, IMDG, IATA



Class

8 Corrosive substances

Label

8

14.4 Packing group

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Marine pollutant:

No

14.6	Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Stowage Code	Warning: Corrosive substances. 80 F-A,S-B (SGG1) Acids B SW2 Clear of living quarters.
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.
	ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
	Transport category Tunnel restriction code	3 E
	IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
	UN "Model Regulation":	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(ALKYL(C12-16) DIMETHYLBENZYLAMMONIUM CHLORIDE, PHOSPHORIC ACID, SOLUTION), 8, III

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.
- 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.

Relevant phrases

H225 Highly flammable liquid and vapour.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Department issuing SDS: Product safety department

16 cont..

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

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

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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