



MATERIAL SAFETY DATA SHEET

VERSION 2 - CLP-GHS CLASSIFICATIONS (EC) No. 1272/2008



Ref: 049P – Patio Cleaner

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY:

- 1.1 Product Name:** **PATIO CLEANER**
- 1.2 Applications:** General purpose cleaning solution for external masonry
- 1.3 Supplier:** Palace Chemicals Ltd; Speke Hall Industrial Estate; Speke; Liverpool; L24 1YA
Tel: 0151 486 6101; Fax 0151 448 1982
e-mail: sales@palacechemicals.co.uk; web: www.palacechemicals.co.uk
- 1.4 Emergency Telephone No.** Tel: 0151 486 6101 – Mon-Fri: 0800 - 1800

2. HAZARDS IDENTIFICATION:

- 2.1 Classification: (EC 1272/2008):** **STOT SE3 Category 3**
Skin Irrit. 2: 1% ≤ C ≤ 10%



SIGNAL WORD: **WARNING**

2.2 Label elements:

Hazard statements: H315: Causes skin irritation.
H318: Causes serious eye damage

Precautionary Statements: P264: Wash hands & skin thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301: IF SWALLOWED: Rinse mouth. Do Not INDUCE VOMITING
P302: IF ON SKIN: Wash with plenty of soap & water
P303: IF ON SKIN (or hair) Remove take/off immediately all contaminated clothing. Rinse skin with water/shower
P304: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2.3 Other hazards: P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a doctor / physician
P363: Wash contaminated clothing before re-use.
P405: Store locked up & out of reach of children

3. COMPOSITION / INFORMATION ON INGREDIENTS:

3.2 Mixtures:

Name:	CAS No.:	EC No.:	Concentration:	Classification:
Phosphoric Acid	7664-38-2	231-633-2	2.0 – 5.0 % w/w	H314; H315; H318; H335
Alcohol ethoxylate	68131-39-5		≤ 1.0% w/w	H318; H302
Benzyl-(C8-C18)-alkyl dimethyl chloride	63449-41-2	264-151-6	< 1.0% w/w	H302; H312; H314; H400
Ethylenediamine Tetra-acetic Acid	60-00-4	200-449-4	0.1 – 0.5%	H319

4. FIRST AID MEASURES:

4.1 Description of measures:

EYE CONTACT: Remove contact lenses and irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek immediate medical attention & remove any particles with a cotton wool bud.



INHALATION: Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention. Do not use mouth to mouth ventilation. Obtain immediate medical assistance.

SKIN CONTACT: Wash off skin immediately with water. Remove contaminated clothing and launder regularly. Where irritation to skin is apparent seek prompt medical attention.



INGESTION: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Seek prompt medical attention and show data sheet.



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4.2 Acute & Chronic symptoms:

Inhalation: -Spray mist will irritate mucous membranes & respiratory tract
- Symptoms: Breathing difficulties. Cough, chemical pneumonitis, pulmonary oedema
- Repeated or prolonged exposure: Risk of sore throat, nose bleeds, chronic bronchitis

Skin contact – Irritating to skin
- Symptoms: Redness, swelling of tissue, burn.

Eye contact - Causes serious eye damage.
- Small amounts splashed into eyes can cause irreversible tissue damage.
- May cause permanent eye injury.
- Symptoms: Redness, lachrymation, swelling of tissue.

Ingestion - Severe burns of the mouth and throat, as well as danger of perforation of the Oesophagus and the stomach.

- Symptoms: Nausea, abdominal pain, bloody vomiting, diarrhoea, suffocation, cough, Severe shortness of breath.

4.3 Immediate medical attention:

Speed is essential. Always obtain immediate medical attention.

5. FIRE FIGHTING MEASURES:

5.1 Extinguishing media: This product is not flammable

5.2 Combustion Hazards: Polypropylene bottle may release noxious fumes (CO/CO₂) under combustion.

5.3 Advice for fire-fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus with support of chemical shower facilities for immediate wash down after contact.

6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal protection: Wear impermeable PVC overalls, aprons, rubber boots and supply respiratory protective equipment when there is a risk of noxious vapours at high temperatures.

6.2 Environmental precautions: Contain liquid, absorb onto granules and then wash away fine residues with excess volumes of water ensuring complete and effective dilution.

6.3 Spill removal methods: Scrape up and re-seal. Wash minor surface residues with water into general drains. Mark containers for disposal as special waste (acid).

6.4 References to other sections: See section 10 for disposal & Section 8 for exposure control

7. HANDLING & STORAGE:

7.1 Safe handling precautions: Use in well ventilated areas. Avoid handling dust or granules. Always avoid contact with skin & eyes and ensure nearby provision of shower and eye wash equipment in the event of accidental contact.

7.2 (a) Safe storage conditions: Store in well-sealed, clearly marked containers. Keep out of reach of children in a cool, dry & well-ventilated environment preferably within a lockable metal cabinet. Avoid storage outdoors or where there is a risk of exposure to heat.

7.2 (b) Incompatible materials: Use only in accordance with instructions shown on the container and do not transfer contents to secondary containers made from metals or any associated alloys. Avoid direct contact with strong bases

7.3 Specific end uses: For use only as a paint removal poultice in full compliance with the instructions provided.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

8.1 Control parameters Substance:	8 hour exposure limit	15 minute exposure limit	Source. Type
DNEL's - (Derived No effect levels) for workers:			
Exposure pattern:	Route	DNEL	Dose descriptor
Acute systemic effects -	Dermal		
Acute systemic effects -	Inhalation		
Acute Local effects -	Dermal		
Acute Local effects -	Inhalation		

8.2 Exposure controls:

Respiratory protection: Will be required if spraying the product and irritating mist may be formed. Ensure this is carried out in outdoor areas with good ventilation wherever possible



Hand protection: Hand protection is advised by wearing 17" long elbow length heavy duty natural rubber gloves or gauntlets approved to EN 374 & EN 420 with a BTT rating of > 8 hrs for 50% acid.



Eye protection: Chemical goggles to BS 2092 Goggles should be worn for all applications to help prevent accidental face/eye contact. The use of an equivalent rated chemical visor may also be considered to avoid facial splashes



Skin protection: A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately. Elasticated wristbands & anklets overlapping safety boots & gloves are also advised.



9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance: Clear pale yellow liquid	Relative density: 1.020 kg/litre
Odour: Lemon	Water solubility: Complete
Odour threshold: Low	Solubility in oils: n/a
pH: 3.0 – 4.0	Partition coefficient (Kow): n/d
Flash point: n/a	Auto-ignition temperature: n/a
Melting point: n/a	Decomposition temperature: >350°C
Boiling point: >100°C	Evaporation rate: As water
Evaporation rate: n/a	Viscosity: n/a
Upper/Lower Flam limits: n/a	Explosive properties: n/a
Vapour pressure: n/a	Oxidising properties: Avoid contact with metals
Vapour density: As above	Particle size: n/a

10. STABILITY & REACTIVITY:

10.1 Conditions to avoid: Strong alkalis & high temperatures	10.4 Reactivity: Stable under normal use
10.2 Incompatible Materials: metals	10.5 Chemical reactivity: Avoid contact with hypochlorite bleach
10.3 Decomposition hazards: Limited volume of HCL gas when heated	10.6 Risk of hazardous reaction: Only with strong alkalis



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11. TOXICOLOGICAL INFORMATION:

11.1 Information on toxicological effects: This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its' major components.

Routes of exposure:	Skin, eye & inhalation	Skin Corrosivity / Irritation:	Causes severe burns
Eye damage/irritation:	Risk of permanent corneal damage	Respiratory/skin sensitisation:	With prolonged contact
Reproductive toxicity:	n/a	Germ cell Mutagenicity:	n/a
STOT single exposure:	Permanent damage to mucous membranes	Carcinogenicity:	n/a
STOT repeat exposure:	Severe skin damage & dermatitis	Aspiration hazard:	n/a

12. ECOLOGICAL INFORMATION:

12.1 Ecotoxicity:	High concentrations will injure aquatic life due to low PH level.	12.4 Mobility in soil:	Water soluble so highly mobile
12.2 Bio-accumulative potential:	Negligible	12.5 PBT and vPvB result:	Nil
12.3 Persistence & degradability:	Readily biodegradable	12.6 Other effects:	n/d

13. DISPOSAL CONSIDERATIONS:

- 13.1 Waste treatment Methods:** Waste product to be treated as controlled waste in accordance with local authority regulations. Any absorbents used for clearing up soils should be disposed of using waste code 15 02 02, for absorbents contaminated by dangerous substances.

14. TRANSPORT INFORMATION:

No Transport Hazard classification is applicable to this product

Regulatory Code (Land, Sea & Air):

- 14.1 UN No.:**
14.2 Proper shipping name:
14.3 ADR Packing Group:
14.4 Transport Hazard Class:
14.5 Environmental hazards.
14.6 Special user precautions:
14.7 Transport in bulk – IBC code:

15. REGULATORY INFORMATION:

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

All components are listed as existing substances in Europe

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UK Regulatory References:

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Environmental Listing - Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980.

Statutory Instruments:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes:

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).



EU Legislation:

Dangerous Substance Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations:

Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

Authorisations (Title VII Regulation 1907/2006) - No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006) - No specific restrictions of use are noted for this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

16. OTHER INFORMATION:

Last revision date: 13th May 2021

SDS No.: 049P

List of abbreviations used in this SDS:

CAS	Chemical abstracts service
CLP	Classification, labelling & packaging regulation (EC) No. 1272/2008
DSD	Dangerous substances Directive 67/548/EEC
DPD	Dangerous Products Directive 1999/45/EC
PBT	Persistent, Bio-accumulative & Toxic
REACH	Registration, Evaluation, Authorisation & Restriction of Chemicals Regulation (EC) 1907/2006
vPvB	Very Persistent, very Bio-accumulative

References:

Classification methods:

H Phrases in section 3: H314 – Causes severe skin burns and eye damage
H315 Causes skin irritation
H318 Causes serious eye damage
H335 Causes burns to skin

Training for workers: Employees should receive appropriate training in all aspects of the safe handling and control of this product for use at work

Disclaimer: The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.