

SAFETY DATA SHEET

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SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Trade Name	Description	Unit	Code
Teepol	Patio, Drive & Path Cleaner	4 x 5L	0281

1.2 Relevant identified uses of the substance/mixture and uses advised against

Patio Cleaner has been developed specifically for use on heavily soiled patios. Effective removes unsightly dirt, light oil stains & algae from paved areas, concrete stones and walls. Treated areas can be used immediately after cleaning and rinsing.

1.3 Details of the supplier of the safety data sheet

Company	Teepol Products,		
Address	Harvey Waddington,	Telephone	01689 877020
	Murray Road,	Fax	01689 877027
	Orpington,	E-Mail	sales@teepol.co.uk
	Kent BR5 3QY		

1.4 Emergency telephone number +44 (0)1689 877020 (09:00 - 16:00 Monday to Friday)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute. Tox. 4 - Inha, H332

Eye. Dam. 1, H318

Skin. Irrit. 2, H315

2.2 Label elements

Signal Word: *Hazard Pictograms:*

DANGER

Hazard Statements:



H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

Precautionary Statements:

Disposal

P501 Dispose of contents/container to licensed waste disposal site.

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

Storage

P102 Keep out of reach of children.

2.3 Other hazards

EUH none None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<u>Substance Name</u>	<u>REACH Reg. No.</u>	<u>CAS-No</u>	<u>EC-No.</u>	<u>Amount [%]</u>
Pentasodium Diethylenetriaminepentaacetate	01-2119474445-33	140-01-2	205-391-3	<5

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statements</u>
Acute toxicity	Acute. Tox. 4 - Inha	H332 Acute toxicity

<u>Substance Name</u>	<u>REACH Reg. No.</u>	<u>CAS-No</u>	<u>EC-No.</u>	<u>Amount [%]</u>
Sodium Dodecylbenzene Sulphonate	01-2119565112-48-XXXX	25155-30-0	246-680-4	<5

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statements</u>
Skin corrosion/irritation	Skin. Irrit. 2	H315 Skin corrosion/irritation
Serious eye damage/irritation	Eye. Dam. 1	H318 Serious eye damage/irritation

<u>Substance Name</u>	<u>REACH Reg. No.</u>	<u>CAS-No</u>	<u>EC-No.</u>	<u>Amount [%]</u>
Sodium Hydroxide	011-002-00-6	1310-73-2	215-185-5	<5

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statements</u>
Skin corrosion/irritation	Skin. Corr. 1A B C	H314 Skin corrosion/irritation
Serious eye damage/irritation	Eye. Dam. 1	H318 Serious eye damage/irritation
Corrosive to metals	Met. Corr. 1	H290 Corrosive to metals

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Remove contaminated clothing.

After inhalation

Ensure supply of fresh air and seek medical attention.

After contact with skin

Wash splashes from skin immediately. If skin becomes sore or inflamed seek medical attention.

After contact with eyes

Irrigate with water for 10 to 15 minutes until irritation subsides. If irritation persists seek medical attention.

After ingestion:

If conscious, give plenty of water to drink, do not induce vomiting, obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Eye and skin irritation

4.3 Indication of any immediate medical attention and special treatment needed

Rinse with clean water

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: This product is not flammable. Use fire extinguishing media appropriate for surrounding area.

5.1 Unsuitable extinguishing media: Not applicable.

5.2 Special hazards arising from the substance or mixture

May produce oxides of carbon, nitrogen, sodium and sulphur.

5.3 Advice fo Fire Fighters

Wear self-contained breathing apparatus and protective clothing as appropriate to the associated fire.

SECTION 6: ACCIDENTAL RELEASE MEAS

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate PPE. Avoid breathing vapours if any and ensure adequate ventilation. Cordon off area to other personnel.

6.2 Environmental precaution

Do not allow to enter surface water drains, soil/subsoil.

6.3 Methods and material for containment and cleaning up

Absorb with sand or binder and dispose of according to local regulations. Small spillages may be flushed to a foul drain.

6.4 Reference to Other Sections: See Section 8 and 13 for more information on exposure and disposal.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for safe handling

Provide good ventilation in working area. Wash hands after use and do not allow to enter surface water drains.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original containers out of reach of children. Storage temperature should be between 5°C and 30°C.

7.3 Specific end use(s)

Use only as directed on the container or label.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control paramenters

(Sodium Hydroxide) OES: TWA 8 hours-STEEL 15 mins 2mg/m³.

8.2 Exposure Controls

Do not eat, drink or smoke whilst working and wash hands after use.

Exposure Controls - Eyes: Avoid contact with eyes. Wear suitable eye protection if appropriate.

Exposure Controls - Skin: Wear vinyl, latex or nitrile gloves.

Exposure Controls - Respiratory Avoid inhaling dust from dried material.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance / Odour Odourless bright yellow liquid (Method: QP22)

pH (10% soln.) >13 (Method: QP03)

Melting/freezing point: 0°C

Flammable / Flash point Not Flammable

Relative density 1.05 g/cm³ @ 20°C (Method: QP07)

Solubility: Soluble/dispersible in water

Viscosity: As water @20°C (Method: QP04)

Oxidising properties: Not applicable.

Explosive properties: Not applicable.

9.2 Other Information No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Gives off hydrogen by reaction with base metals (zinc, aluminium).

10.2 Chemical Stability: No decomposition if stored and applied as directed.

10.3 Hazardous Reactions:	Exothermic reaction with strong acids. Gives off hydrogen by reaction with base metals (zinc, aluminium).Risk of explosion.
10.6 Hazardous Decomposition Products	Contact with aluminium may produce flammable hydrogen.
10.4 Conditions to Avoid:	No information available.
10.5 Incompatible Materials:	Acids, light metals, aluminium and zinc Organic peroxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Substance	Toxicity
Pentasodium Diethylenetriamine pentaacetate	11.1. Information on toxicological effects Acute toxicity - inhalation ATE inhalation (gases ppm) 17,482.52 ATE inhalation (vapours mg/l) 42.74 ATE inhalation (dusts/mists mg/l) 5.83 Reproductive toxicity Reproductive toxicity - fertility Contains a substance/a group of substances which may damage the unborn child. Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Ingestion May cause severe internal injury. Skin contact Irritating to skin. Eye contact Irritating to eyes.
Sodium Dodecylbenzene Sulphonate	Acute toxicity LD50 Oral - rat - 438 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Somnolence (general depressed activity). Diarrhoea Skin corrosion/irritation Skin - rabbit - Skin irritation - 24 h Serious eye damage/eye irritation Eyes - rabbit - Severe eye irritation - 24 h Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity no data available Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Potential health effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion Harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye burns. Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Additional Information RTECS: DB6825000

Sodium Hydroxide Toxicological Data: Estimated fatal dose 5.0 grams.
 Inhalation: Dust from dried product may cause lung damage.
 Skin Contact: Will cause severe burns.
 Eye Contact: Will cause injury with possible LOSS OF SIGHT.

No information regarding interactions between the ingredients in this mixture is available, therefore, the information shown above is separately reported for each relevant ingredient used in the mixture even though it may be present below its concentration limit and represent no toxicity in the mixture as a whole.

SECTION 12: ECOLOGICAL INFORMATION

No specific information is available for this mixture, therefore, the following information regarding the relevant substances used in this mixture is provided, even though they may be present below the concentration limit and represent minimal or no toxicity to the environment.

Substance	ECO Toxicity
Pentasodium Diethylenetriamine pentaacetate	Ecotoxicity: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. 12.1. Toxicity Acute Fish Toxicity Not considered toxic to fish. 12.2. Persistence and degradability Degradability: There are no data on the degradability of this product. 12.3. Bioaccumulative potential Bioaccumulative Potential: The product does not contain any substances expected to be bioaccumulating. 12.4. Mobility in soil Mobility: The product is soluble in water. 12.5. Results of PBT and vPvB assessment This product does not contain any PBT or vPvB Substances. 12.6. Other adverse effects Not determined.
Sodium Dodecylbenzene Sulphonate	12.1 Toxicity Fish mortality NOEC - Oncorhynchus kisutch -3.1 mg/l - 3d mortality LOEC - Oncorhynchus kisutch - 5.6 mg/l - 3d Toxicity to daphnia and other aquatic invertebrates mortality NOEC - Daphnia - 4 mg/l - 7d 12.2 Persistence and degradability no data available 12.3 Bioaccumulative potential Bioaccumulation Lepomis macrochirus - 28 d -64 µg/l Bioconcentration factor (BCF): 220 12.4 Mobility in soil no data available 12.5 Results of PBT and vPvB assessment no data available 12.6 Other adverse effects Avoid release to the environment. No data available
Sodium Hydroxide	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. 12.1 Toxicity: LC 50, 96 Hrs, FISH mg/l 55.6 EC 50, 48 Hrs, DAPHNIA, mg/l 156 12.2 Persistence and degradability: The product is expected to be biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

When disposing of surplus or waste product use suitable PPE etc. ensuring empty containers are rinsed out and disposed of safely. Do not allow product to enter land or surface water drains. Dispose of in accordance with local authority regulations. Do not mix with other waste materials.

SECTION 14: TRANSPORT INFORMATION

- 14.1 UN number:** N/A
14.2 Shipping Name: Teepol Patio, Drive & Path Cleaner
14.3 Transport hazard class None
14.4 Packing group: N/A
14.5 Environmental Hazards: None
14.6 Special precautions for user:
No information
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:
No information

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environment regulation/legislation specific to the substance or mixture

EU Legislation

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.

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.

Guidance

ECHA Guidance on the application of CLP criteria (Version 4: November 2013)
ECHA Guidance on the compilation of safety data sheets (Version 2.1: February 2014)

15.2 Chemical safety assessment

No information

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under section 3

- H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H290 May be corrosive to metals.

Contains <2% Sodium Hydroxide

Directions:

This product may be used neat, allowed to penetrate for a few minutes and wiped off. Apply to surface to be cleaned at low pressure via pressure washer at a nozzle dilution rate of 1%-2% depending in level of soil, leave for a few minutes and rinse off at high pressure

Further Information: The latest version of this data sheet may be obtained from the Harvey Waddington Web Site at: www.teepol.co.uk

GLOSSARY: PPE Personal protective equipment. N/A Not applicable. N/K Not known OES Occupational exposure limit
TWA Time weighted average W/V Weight to volume

The data contained in this Safety Data Sheet has been supplied for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

ANIMAL TESTING: Teepol Products (UK) do not test their finished products on animals.

The information contained in this document is based on information believed to be correct on the date of issue. No warranty or representation, expressed or implied, is made as to the accuracy or completeness of this information. The user assumes all liability for any damage or injury resulting from abnormal use, from the failure to adhere to recommended practises, or from hazards inherent in the nature of the product. In accordance with our policy of incorporating technical improvements, we reserve the right to amend any specification without notice.