

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

**Product name:** Pavestone Patio Cleaner

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of substance/mixture:** PC35: Washing and cleaning products (including solvent based products).

**1.3. Details of the supplier of the safety data sheet**

**Pavestone UK Limited,  
Westington Quarry,  
Chipping Campden,  
Gloucestershire GL55 6EG.**

**Tel: +44 (0) 1386 848650**

**Email: enquiries@pavestone.co.uk**

**www.pavestone.co.uk**

**1.4. Emergency telephone number**

**+44 (0) 1386 848650**

**Office Hours: Monday-Friday 8.30am - 5.30pm**

**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

**Classification under CLP:**

Eye Irrit. 2: H319; Skin Irrit. 2: H315

**Most important adverse effects:**

Causes skin irritation. Causes serious eye irritation.

**2.2. Label elements**

**Hazard statements:**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

**Hazard pictograms:**

GHS07: Exclamation mark.



**Signal words:**

Warning.

**Precautionary statements:**

P102: Keep out of reach of children.

P405: Store locked up.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves and eye protection.

P302+352: IF ON SKIN: Wash with plenty of water/soap.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+313: If skin irritation occurs: Get medical attention.

P337+313: If eye irritation persists: Get medical attention.

P362: Take off contaminated clothing.

P404: Store in a closed container.

P501: Dispose of contents/container to special waste collection point in accordance with local authority requirements.

**2.3. Other hazards**

**PBT:** This product is not identified as a PBT/vPvB substance.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Mixtures**

**Hazardous ingredients:**

2-BUTOXYETHANOL - REACH registered number(s): 01-2119475108-36-XXXX

**EINECS:** 203-905-0

**CAS:** 111-76-2

**CLP Classification:** Acute Tox. 4: H332; Acute Tox. 4: H312, Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315

**1-10%**

TETRAPOTASSIUM PYROPHOSPHATE

**EINECS:** 230-785-7

**CAS:** 7320-34-5

**CLP Classification:** Eye Irrit. 2: H319

**1-10%**

(L) C9-11 PARETH-9

**CAS:** 68439-45-2

**CLP Classification:** Acute Tox. 4: H302; Eye Dam. 1: H318

**1-10%**

AMMONIA SOLUTION

**EINECS:** 215-647-6

**CAS:** 1336-21-6

**CLP Classification:** Skin Corr. 1B: H314;

Aquatic Acute 1: H400

**<1-10%**

Contains: \* 2-BUTOXYETHANOL; TETRAPOTASSIUM PYROPHOSPHATE; (L) C9-11 PARETH-9; AMMONIA SOLUTION

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water.

**Inhalation:** Not applicable.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed/immediate effects:** Immediate effects can be expected after short-term exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate/special treatment:** Not applicable.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Precautions, protective equipment and emergency procedures

Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

Refer to section 8 of SDS.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area. Keep container tightly closed.

### 7.3. Specific end use(s)

No data available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Workplace exposure limits:** Respirable dust

**State:** UK **8 hour TWA:** 25 ppm **15 min. STEL:** 50 ppm

**Hazardous ingredients:**

2-BUTOXYETHANOL

#### DNEL

##### Exposures:

**Inhalation Value:** 2.79mg/m<sup>3</sup>

**Population:** Workers **Effect:** Systemic

**Oral Value:** >70mg/kg bw/day **Population:** General

**Effect:** Systemic

**Inhalation Value:** 0.68mg/l **Population:** General

**Effect:** Systemic

#### PNEC

##### Exposures:

**Fresh water Value:** 0.05mg/l

**Marine water Value:** 0.005mg/l

**Microorganisms in**

**sewage treatment Value:** 50mg/l

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Protective gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**State:** Liquid

**Odour:** Ammonia

**Solubility in water:** Miscible in all proportions

**Boiling point/range °C:** 100°C @ 760 mm Hg

**Flash point °C:** Not applicable

**Relative density:** 1.00 - 1.05 @ 20°C

**pH:** 8-9

## 9.2. Other information

Aqueous solution.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

In combustion emits toxic fumes.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**Hazardous ingredients:**

2-BUTOXYETHANOL

#### IVN

**RAT LD50 Value:** 307mg/kg

#### ORL

**RAT LD50 Value:** 470mg/kg

**MUS LD50 Value:** 1230mg/kg

TETRAPOTASSIUM PYROPHOSPHATE

#### DERMAL

**RBT LD50 Value:** >2000mg/kg

#### DUST/MIST

**RAT 1H LC50 Value:** >1.1mg/l

#### ORAL

**RAT LD50 Value:** >2000mg/kg

(L) C9-11 PARETH-9

#### ORAL

**RAT LD50 Value:** >200<2000/kg

AMMONIA SOLUTION...100%

**IVN**

**MUS LD50 Value:** 91mg/kg

**ORL**

**RAT LD50 Value:** 350mg/kg

**SCU**

**MUS LDLO Value:** 160mg/kg

**Relevant hazards for product:**

**Hazard:** Skin corrosion/irritation **Route:** DRM

**Basis:** Hazardous - calculated

**Hazard:** Serious eye damage/irritation **Route:** OPT

**Basis:** Hazardous - calculated

**Excluded hazards for substance:**

**Hazard:** Acute toxicity (ac. tox. 4)

**Basis:** No hazard - calculated

**Hazard:** Acute toxicity (ac. tox. 3)

**Basis:** No hazard - calculated

**Hazard:** Acute toxicity (ac. tox. 2)

**Basis:** No hazard - calculated

**Hazard:** Acute toxicity (ac. tox. 1)

**Basis:** No hazard - calculated

**Hazard:** Respiratory/skin sensitisation

**Basis:** No hazard - calculated

**Hazard:** Germ cell mutagenicity

**Basis:** No hazard - calculated

**Hazard:** Carcinogenicity

**Basis:** No hazard - calculated

**Hazard:** Reproductive toxicity

**Basis:** No hazard - calculated

**Hazard:** STOT-single exposure

**Basis:** No hazard - calculated

**Hazard:** STOT-repeated exposure

**Basis:** No hazard - calculated

**Hazard:** Aspiration hazard

**Basis:** No hazard - calculated

**Symptoms/routes of exposure**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed/immediate effects:** Immediate effects can be expected after short-term exposure.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity****Hazardous ingredients:**

2-BUTOXYETHANOL

**Daphnia magna 48H EC50 Value:** 1550mg/l

**RAINBOW TROUT (Oncorhynchus mykiss) 96H LC50 Value:** 1474ppm

**Threshold limit algae 1 72H EC50 Value:** 1474ppm

**Threshold limit algae 2 72H NOEC Value:** 88mg/l

TETRAPOTASSIUM PYROPHOSPHATE

**ALGAE 72H ErC50 Value:** >100mg/l

**Daphnia magna 48H EC50 Value:** >100mg/l

**RAINBOW TROUT (Oncorhynchus mykiss) 48H EC50 Value:** >100mg/l

(L) C9-11 PARETH-9

**FISH 96H LC50 Value:** 1-10mg/l

**12.2. Persistence and degradability**

No Biodegradable.

**12.3. Bioaccumulative potential**

No bioaccumulation potential.

**12.4. Mobility in soil**

Readily absorbed into soil.

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects**

Negligible ecotoxicity.

#### SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### SECTION 14: TRANSPORT INFORMATION

This product does not require a classification for transport.

#### SECTION 15: REGULATORY INFORMATION

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

Not applicable.

##### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

#### SECTION 16: OTHER INFORMATION

\*This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

##### Phrases used in s.2 and s.3:

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H400: Very toxic to aquatic life.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.