SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: PATIO BLACK SPOT ELIMINATOR
- UFI:

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

- Use of the substance/mixture: A COMPLEX MIXTURE OF CLEANING CHEMICALS

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: STONE CARE DIRECT
- Address of Supplier: Stone Care Direct Ltd
  Unit 28 Highcroft Industrial Estate
  Enterprise Road
  Horndean
  Waterlooville
  PO8 0BT
- Telephone: 0330 1339 590
- Responsible Person: PAUL CRANNEY
- Email: Office@stonecaredirect.co.uk

1.4 Emergency telephone number

- Emergency Telephone: 0330 1339 590

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Aquatic Acute 1, Aquatic Chronic 2, Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1

2.2 Label elements

GHS05

GHS09

- Signal Word: Danger

2.2.1 Hazard statements

H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

2.2.2 Precautionary statements

EUH031 - Contact with acids liberates toxic gas.
P234 - Keep only in original packaging.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

SECTION 2: Hazards identification (....)

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container in accordance with national regulations.

2.3 Other hazards

- Contains: Sodium hypochlorite, solution ... % Cl active

SECTION 3: Composition/information on ingredients

3.2 Mixtures

3.2.1 sodium hypochlorite, solution ... % Cl active

CAS Number:	7681-52-9
EC Number:	231-668-3
Concentration:	10 - 20%
Specific Concentration Limits:	None assigned
M factor:	10;1
Acute toxicity estimate:	
Categories:	Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1
Symbols:	GHS05;GHS09
H Statements:	H314;H318;H400;H410;EUH031
M factor, acute:	10
M factor, chronic:	1

3.2.2 sodium hydroxide; caustic soda

CAS Number:	1310-73-2
EC Number:	215-185-5
Concentration:	>1%
Specific Concentration Limits:	None assigned
M factor:	
Acute toxicity estimate:	
Categories:	Skin Corr. 1A
Symbols:	GHS05
H Statements:	H314

SECTION 4: First aid measures

4.1 Description of first aid measures

- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Get emergency medical help immediately
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- Get medical advice/attention.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4: First aid measures (....)

4.2 Most important symptoms and effects, both acute and delayed

- Gas or vapor in high concentrations may irriate the respitory system.
- Generates toxic gas in contact with acid.
- Ingestion may cause sesver irritation of the mouth.
- Ingestion may cause sever irritation of the mouth, the oesophagus and the gastrointestinal tract.
- Prolonged skin or eye contact may cause chemical burns
- Risk of serious damage to eyes

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Use fire-exstinguishing media suitable for the surrounding fire. Extinguish with the following media: Water spray.
- Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

- Dry product is combustible Toxic to aquatic life with long lasting effects.
- Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3 Advice for firefighters

- Wear Positive-Pressure Breathing Apparatus
- Wear appropriate protective clothing.
- Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Avoid inhilation of spray mist and contact with skin and eyes. Provide adequate ventilation.

6.2 Environmental precautions

- Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

- Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For
  waste disposal, see Section 13. Contain and collect extinguishing water.

6.4 Reference to other sections

- Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: Handling and storage

SECTION 7: Handling and storage (....)

7.1 Precautions for safe handling

- Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Provide adequate ventilation. Contact with acids liberates toxic gas. Chlorine.

7.2 Conditions for safe storage, including any incompatibilities

- Protect from freezing and direct sunlight. Store in tightly-closed, original container in a wellventilated place. Store away from the following materials: Acids. Flammable/combustible materials. Ammonia. May be corrosive to metals.

7.3 Specific end use(s)

- The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- No exposure limits have been set for this substance

8.1.1 sodium hypochlorite, solution ... % Cl active

DNEL (Industry; inhalational, long term local effects): 1.55 mg/m³
DNEL (Industry; inhalational, short term local effects): 3.1 mg/m³

8.1.2 sodium hydroxide; caustic soda

DNEL (Industry; inhalational, long term local effects): Mg/m³
DNEL (Industry; inhalational, short term local effects): 2 mg/m³

8.2 Exposure controls


Goggles


Gloves


Respirator

- Appropriate engineering controls
  Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
- Eye/face protection Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for
  eye and face protection should comply with European Standard EN166.
- Hand protection The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove
  material. Chemical-resistant, impervious gloves complying with an approved standard should
  be worn if a risk assessment indicates skin contact is possible. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Protective gloves should have a minimum thickness of 0.50 mm. To protect hands from chemicals, gloves should comply with
  European Standard EN374.
- Other skin and body protection
  Wear rubber apron. Wear rubber footwear.

SECTION 8: Exposure controls/personal protection (....)

- Hygiene measures Provide eyewash station and safety shower. Wash at the end of each work shift and before
  eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Eating, smoking and water fountains prohibited in
  immediate work area.
- Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. EN
  136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: Liquid
- Colour: Straw, yellow
- Odour: Chlorine
- Melting point/Range: No information available
- Boiling Point/Range: No information available
- Flammability: No information available
- pH: >11
- Solubility in water: Completely soluble in water
- Density: 1.2
- Flashpoint: >100°C

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity

- Generates toxic gas in contact with acid.

10.2 Chemical stability

- Stable at normal ambient temperatures and when used as recommended. The stability of the solution decreases under
  the action of heat and light.

10.3 Possibility of hazardous reactions

- Generates toxic gas in contact with acid.

10.4 Conditions to avoid

- Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

10.5 Incompatible materials

- Strong acids. Amines. contact with metals may result in decomposition with the formation of Oxygen

10.6 Hazardous decomposition products

- Oxygen. hypochlorus acid Chlorine.

SECTION 11: Toxicological information

SECTION 11: Toxicological information (....)

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Acute toxicity

LD_{50} (oral) : 1100 mg/kg
LD_{50} (dermal) : 2000 mg/kg
LC_{50} (inhalation) : >20 mg/l/4hr (gas/vapour)

11.1.2 Skin corrosion/irritation

Corrosive to skin.

11.1.3 Serious eye damage/irritation

Corrosive.

11.1.4 Respiratory or skin sensitisation

Not sensitising.

11.1.5 Germ cell mutagenicity

This substance has no evidence of mutagenic properties.

11.1.6 Carcinogenicity

There is no evidence that the product can cause cancer.

11.1.7 Reproductive toxicity

This substance has no evidence of toxicity to reproduction.

11.1.8 STOT (specific target organ toxicity) - single exposure

Irritating to respiratory system.

11.1.9 STOT (specific target organ toxicity) - repeated exposure

Based on available data the classification criteria are not met

11.1.10 Aspiration hazard

None.

11.2 Information on other hazards

- May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause respiratory system irritation.
- May cause chemical burns in mouth, oesophagus and stomach.
- May cause serious chemical burns to the skin.
- Causes burns. Causes serious eye damage.

SECTION 12: Ecological information

12.1 Toxicity

- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

12.2 Persistence and degradability

- Substance is inorganic.

12.3 Bioaccumulative potential

- Bioaccumulation is unlikely.

SECTION 12: Ecological information (....)

12.4 Mobility in soil

- The product is soluble in water.

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Endocrine disrupting properties

- None known.

12.7 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Do not puncture or incinerate, even when empty. Waste is classified as hazardous waste.
- Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

Corrosive

14.1 UN number or ID number

- UN No.: 1791

14.2 UN proper shipping name

- Proper Shipping Name: HYPOCHLORITE SOLUTION

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: II

14.5 Environmental hazards

- Marine Pollutant

14.6 Special precautions for user

- Contains: Sodium hypochlorite, solution ... % Cl active
  sodium hydroxide; caustic soda

14.7 Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

SECTION 15: Regulatory information (....)

- 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) (as amended).
  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 (as amended).
  Commission Regulation (EU) No 2015/830 of 28 May 2015.
  This product may impact SEVESO storage regulations.
- This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 3

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

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- EUH031: Contact with acids liberates toxic gas. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

--- end of safety datasheet ---