



MATERIALS SAFETY DATA SHEET

1. Product Identification

Product name: Algae and Black Spot Remover

Product type: Liquid

Product description: Effective algae, black spot and lichens remover for porcelain, natural stone and masonry

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2. Hazards Identification

2.1 Classification of the substance or mixture

Classification under CLP: Skin Corr. 1B: H314; Aquatic Acute 1: H400; -: EUH031.

Most important adverse effects: Contact with acids liberates toxic gas. Causes severe skin burns and eye damage. Very toxic to aquatic life.

2.2 Label elements

Hazard statements:

EUH031: Contact with acids liberates toxic gas.

H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

Hazard pictograms:

GHS05: Corrosion

GHS09: Environmental



Signal words: Danger.

Precautionary statements:

P102: Keep out of reach of children.

P260: Do not breathe spray.

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

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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.

P405: Store locked up.



Haz. ingredients (label): Contains: SODIUM HYPOCHLORITE.

2.3 Other hazards

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

3. Composition / Information on the Ingredients

3.1 Mixtures and hazardous ingredients

SODIUM HYPOCHLORITE SOLUTION CL ACTIVE- REACH registered number(s): 01-2119488154-34-XXXX

EINECS: 231-668-3

CAS: 7681-52-9

PBT / WEL: -

CLP Classification: Skin Corr. 1B: H314; Aquatic Acute 1: H400; -:

EUH031

Percent: 1- 10%

3.2 Non-classified ingredients

PRIMARY ALCOHOL ETHOXYLATE C9-11 6 MOLE- REACH registered number(s): 01-2119980051-45-XXXX

EINECS: -

CAS: 68439-46-3

PBT / WEL: -

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

Percent: <1%

SODIUM BICARBONATE

EINECS: 205-633-8

CAS: 144-55-8

PBT / WEL: -

CLP Classification: Skin Corr. 1B: H314; Aquatic Acute 1: H400; -:

EUH031

Percent: <1%

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SODIUM CARBONATE- REACH registered number(s): 01-2119485498-19-XXXX

EINECS: 207-838-8

CAS: 497-19-8

PBT/WEL: -

CLP Classification: Eye Irrit. 2: H319

Percent: <1%

4. First Aid Measures

4.1 Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.

Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes.

Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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: Eye bathing equipment should be available on the premises.

5. Anti-Fire Measures

5.1 Extinguishing means

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

Exposure hazards: Corrosive. In combustion emits toxic fumes.

Water based product. Advice relates to dry residues after water has evaporated.

5.3 Advice for fire-fighters

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

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. 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

Clean up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

6.4 Reference to other sections

Refer to section 8 of SDS.

7. Handling and Storage

7.1 Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities

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

Suitable packaging: Must only be kept in original packaging.

7.3 Specific end use(s)

No data available.

8. Exposure Control and Protection

8.1 Control parameters

Workplace exposure limits: No data available.

DNEL / PNEC values: No data available.

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: Impermeable gloves.

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

Skin protection: Impermeable protective clothing.

Environmental: Prevent from entering in public sewers or the immediate environment.

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9. Chemical and Physical Properties

9.1 Information on basic physical and chemical properties

State: Liquid

Colour: Pale yellow

Odour: Characteristic odour

Evaporation rate: Slow

Viscosity: Non-viscous

Boiling point/range°C: 100

Melting point/range°C: 0

Flammability limits %: lower: Not applicable

Flammability limits %: upper: Not applicable

Flash point°C: Not applicable

Part.coeff. n-octanol/water: Not applicable

Auto flammability°C: Not applicable

Vapour pressure: Not applicable

Relative density: 1.180

pH: 11.5- 12.5

VOC g/l: 0

9.2 Other information

No data available.

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: 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

Materials to avoid: Strong oxidising agents. Strong acids. Strong reducing agents.

10.6 Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes. Contact with acids liberates very toxic gas.

11. Toxicological Information

11.1 Information on toxicological effects

Hazardous ingredients:

SODIUM HYPOCHLORITE SOLUTION...100% CL ACTIVE

ORL | MUS | LD50 | 5800 mg/kg

PRIMARY ALCOHOL ETHOXYLATE C9-11 6 MOLE

IHL | RAT | LC50 | >5 mg/l

ORL | RAT | LD50 | 200-2000 mg/kg

SKN | RAT | LD50 | >2000 mg/kg

SODIUM BICARBONATE

ORL | RBT | LD50 | 4220 mg/kg

SODIUM CARBONATE

ORL | MUS | LD50 | 6600 mg/kg

ORL | RAT | LD50 | 4090 mg/kg

SCU | MUS | LD50 | 2210 mg/kg

Relevant hazards for product:

Hazard: Skin corrosion/irritation

Route: DRM

Basis: Hazardous: calculated

Hazard: Serious eye damage/irritation

Route: OPT

Basis: Hazardous: calculated

Symptoms / routes of exposure:

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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

12. Ecological Information

12.1 Toxicity

Hazardous ingredients

PRIMARY ALCOHOL ETHOXYLATE C9-11 6 MOLE

FISH 96H | LC50 | 1-10 mg/l

SODIUM BICARBONATE

FATHEAD MINNOWS | 96H LC50 | 8600 g/l

Ecotoxicity values: No data available.

12.2 Persistence and degradability

Not biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil. Volatile. Soluble in water.

12.5 Results of PBT and vPvB assessment

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

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12.6 Other adverse effects

Very toxic to aquatic organisms.

13. Disposal Considerations

13.1 Waste treatment methods

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

Recovery operations: Not applicable.

Waste code number: 20 01 29.

Disposal of packaging: Dispose of as normal industrial waste. Clean with water.

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

14. Transport

14.1 UN number

UN1760.

14.2 UN proper shipping name

Shipping name: CORROSIVE LIQUID, N.O.S.
(SODIUM HYPOCHLORITE SOLUTION...5-10% CL ACTIVE)

14.3 Transport hazard class(es)

Transport class 8.

14.4 Packing group

III

14.5 Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6 Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

15. Regulatory Information

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

Specific regulations: 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.

16. Other Information

Other information

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

Detergent Regulations EC648/2004, the product contains amongst other ingredients:-

Chlorine based bleaching agents 5-15%.

IMPORTANT NOTE:

Risk phases in this section below relate to the INDIVIDUAL COMPONENTS in the formulation when used at their FULL CONCENTRATIONS, and not at the reduced levels in the mixed product. See sections 2 and 3 for the calculated hazard and risk phrases for the blended product.

Phrases used in s.2 and s.3: EUH031: Contact with acids liberates toxic gas.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

Legend to abbreviations:

PNEC Predicted no effect concentration

DNEL Derived no level effect

LD50 Median lethal dose

LC50 Median lethal concentration

LDLO Lethal low dose

EC50 Median effective concentration

IC50 Median inhibitory concentration

dw Dry weight

bw Body weight

cc Closed cup

oc Open cup

MUS Mouse

GPG Guinea pig

RBT Rabbit

HAM Hamster

HMN Human

MAM Mammal

PGN Pigeon

IVN Intravenous

IPR Intraperitoneal

SCU Subcutaneous

ORL Oral

SKN Skin

DRM Dermal

OCC Ocular/corneal

OPT Optical

ING Ingestion

INH Inhalation

PCP Physico-chemical properties

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. For professional and industrial use only.