

Material Safety Data Sheet Product: Tile Doctor Patio & Brick Driveway Cleaner

This Safety Data Sheet contains information to help users understand the potential hazards relating to this product and provides advice for risk management. This information must be shown to or made available to those who may come into contact with the material or are responsible for the material. This Safety Data Sheet is prepared in accordance with Directive 2001/58/EC and subsequent amendments.

1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Trade name Tile Doctor Patio & Brick Driveway Cleaner
Description Pale Yellow Sodium Hypochlorite based preparation for the deep cleaning of patios and driveways including the removal of black spot, lichen, and moss.

Supplier Tile Doctor™
Dryades House, Sylvan Close,
Oxted, Surrey, RH8 0DX
United Kingdom

In case of emergency ☎ 0345 512 0122, www.TileDoctor.co.uk



2. COMPOSITION

Hazardous ingredients.

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

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-668-3	7681-52-9	-	Skin Corr. 1B: H314; Aquatic Acute 1: H400; -: EUH031	1-10%

Non-classified ingredients

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

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	68439-46-3	-	Acute Tox. 4: H302; Eye Dam. 1: H318	<1%

SODIUM BICARBONATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
205-633-8	144-55-8	-	-	<1%

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

EINECS	CAS	PBT / WEL	CLP Classification	Percent
207-838-8	497-19-8	-	Eye Irrit. 2: H319	<1%

3. HAZARDS IDENTIFICATION

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.

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

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

4. FIRST AID MEASURES

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.

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.

Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

5. FIREFIGHTING MEASURES

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

Exposure hazards: Corrosive. In combustion emits toxic fumes. Water based product. Advice relates to dry residues after water has evaporated.

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

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.

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

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.

Reference to other sections: Refer to section 8 of SDS.

7. HANDLING AND STORAGE

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.

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

Suitable packaging: Must only be kept in original packaging.

Specific end use(s): No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure limits: No data available.

DNEL / PNEC No data available.

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.

9. 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. **upper:** Not applicable.
Flash point°C: Not applicable. **Part.coeff. n-octanol/water:** Not applicable.
Autoflammability°C: Not applicable. **Vapour pressure:** Not applicable.
Relative density: 1.180 **pH:** 11.5 - 12.5
VOC g/l: 0

Other information: **No data available.**

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport or storage conditions.
Chemical stability: Stable under normal conditions.
Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
Conditions to avoid: Heat.
Materials to avoid: Strong oxidising agents. Strong acids. Strong reducing agents.
Haz. decomp. products: In combustion emits toxic fumes. Contact with acids liberates very toxic gas.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:

SODIUM HYPOCHLORITE SOLUTION...100% CL ACTIVE

ORL	MUS	LD50	5800	mg/kg
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Non-classified ingredients:

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
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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	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	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

Toxicity of Hazardous ingredients:

PRIMARY ALCOHOL ETHOXYLATE C9-11 6 MOLE

FISH	96H LC50	1-10	mg/l
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SODIUM BICARBONATE

FATHEAD MINNOWS	96H LC50	8600	g/l
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Ecotoxicity values: No data available.

Persistence and degradability: Not biodegradable.

Bio-accumulative potential: No bioaccumulation potential.

Mobility in Soil: Readily absorbed into soil. Volatile. Soluble in water.

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

Other adverse effects: Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

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 INFORMATION

UN number: UN1760

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

Transport hazard class: 8

Packing group: III

Environmentally hazardous: Yes **Marine pollutant:** No

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

15. REGULATORY INFORMATION

Specific regulations: Not applicable.

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

16. 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 phrases 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 effect level

LD50 = median lethal dose

LC50 = median lethal concentration

LDLO = lethal dose low

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.