



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

### 1.1. Product identifier

Product form : Mixture  
Name : External Paving Cleaner  
Product code : ECO/3

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

#### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Consumer, Professional & Industrial use  
Use of the substance/mixture : Cleaner

#### 1.2.2. Uses advised against

No additional information available

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

#### Manufacturer

Barrettine,  
Barrettine Works,  
St Ivel Way,  
Warmley,  
Bristol,  
BS30 8TY

#### Marketing Company & Exclusive Distributor

AM Robb Ltd (T/A LTP)  
Tone Industrial Estate,  
Milverton Road,  
Wellington,  
Somerset,  
TA21 0AN

Tel: +44 (0) 1179 600060 Office Hours only  
Mon-Thurs 8am-5pm, Fri 8am – 4.30pm.  
Fax: +44 (0) 01179 353437  
Email: [sales@barrettine.co.uk](mailto:sales@barrettine.co.uk)

Tel: +44 (0) 1823 666213 Office hours only  
Mon-Fri 8.30am-5.30pm  
Fax: +44 (0) 1823 665685  
Email: [info@ecoprotec.co.uk](mailto:info@ecoprotec.co.uk)

### 1.4. Emergency telephone number

Emergency number : +44 (0) 1270 502891 (Out of Office Hours Emergency Number)

Country	Organisation/Company	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	National Poisons Information Service (NHS Direct)	<a href="http://www.npis.org">http://www.npis.org</a>	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315  
Eye Dam. 1 H318

Full text of classification categories and H statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/38

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage.





**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Hazardous ingredients :

sodium hypochlorite, N,N-dimethyltetradecylamine N-oxide

Hazard statements (CLP) :

H315 - Causes skin irritation  
H318 - Causes serious eye damage

Precautionary statements (CLP) :

P102 - Keep out of reach of children  
P264 - Wash hands and other exposed areas thoroughly after handling  
P280 - Wear eye protection, protective clothing, protective gloves  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a doctor, a POISON CENTER  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

No labelling applicable

**2.3. Other hazards**

No additional information available

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
sodium hypochlorite	(CAS No) 7681-52-9 (EC no) 231-668-3 (REACH-no) 01-2119488154-34-XXXX	1 - 5	E; R2 O; R8 C; R34 Xi; R37 R31 N; R50
N,N-dimethyltetradecylamine N-oxide	(CAS No) 3332-27-2 (EC no) 222-059-3 (REACH-no) 01-2119949262-37-XXXX	1 - 5	Xn; R22 Xi; R38 Xi; R41 N; R50
Sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-2119457892-27-XXXX	< 1	C; R35
Name	Product identifier	Specific concentration limits	
Sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-2119457892-27-XXXX	(0,5 =< C < 2) Xi;R36/38 (2 =< C < 5) C;R34 (C >= 5) C;R35	





Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hypochlorite	(CAS No) 7681-52-9 (EC no) 231-668-3 (REACH-no) 01-2119488154-34-XXXX	1 - 5	Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400
N,N-dimethyltetradecylamine N-oxide	(CAS No) 3332-27-2 (EC no) 222-059-3 (REACH-no) 01-2119949262-37-XXXX	1 - 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-2119457892-27-XXXX	< 1	Skin Corr. 1A, H314

Name	Product identifier	Specific concentration limits
Sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-2119457892-27-XXXX	(0,5 =< C < 2) Eye Irrit. 2, H319 (0,5 =< C < 2) Skin Irrit. 2, H315 (2 =< C < 5) Skin Corr. 1B, H314 (C >= 5) Skin Corr. 1A, H314

Full text of R- and H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/injuries after skin contact : Irritation.
- Symptoms/injuries after eye contact : 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

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.




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

Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage**
**7.1. Precautions for safe handling**

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.  
Incompatible products : Acids.

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**

sodium hypochlorite (7681-52-9)		
Austria	Local name	Chlor
Austria	MAK (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Austria	MAK (ppm)	0,5 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	0,5 ppm
Belgium	Local name	Chlore
Belgium	Short time value (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	0,5 ppm
Bulgaria	Local name	Хлор•
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Croatia	Local name	Klor
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	0,5 ppm
Croatia	Naznake (HR)	EU** T, N
Czech Republic	Local name	Chlor
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	0,17 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	0,52 ppm
Denmark	Local name	Chlor (2007)
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	0,5 ppm
Denmark	Anmærkninger (DK)	ES
Estonia	Local name	Kloor
Estonia	OEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Estonia	OEL STEL (ppm)	0,5 ppm





<b>sodium hypochlorite (7681-52-9)</b>		
Finland	Local name	Kloori
Finland	HTP-arvo (15 min)	1,5 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	0,5 ppm
France	Local name	Chlore
France	VLE (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
France	VLE (ppm)	0,5 ppm
Germany	Local name	Chlor
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	0,5 ppm
Germany	Remark (TRGS 900)	DFG,EU,Y
Greece	OEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	0,5 ppm
Hungary	Local name	KLÓR
Hungary	CK-érték	1,5 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	i; l.
Ireland	Local name	Chlorine
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	0,5 ppm
Ireland	Notes (IE)	IOELV
Italy	Local name	Cloro
Italy	OEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	0,5 ppm
Latvia	Local name	Hlors
Latvia	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	0,3 ppm
Lithuania	Local name	Chloras
Lithuania	TPRV (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	0,5 ppm
Lithuania	Remark (LT)	Ū
Luxembourg	Local name	Chlore
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Luxembourg	OEL STEL (ppm)	0,5 ppm
Malta	Local name	Chlorine
Malta	OEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	0,5 ppm
Netherlands	Local name	Chloor
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Poland	Local name	Chlor
Poland	NDS (mg/m <sup>3</sup> )	0,7 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Portugal	Local name	Cloro
Portugal	OEL TWA (ppm)	0,5 ppm
Portugal	OEL STEL (ppm)	1 ppm
Romania	Local name	Clor
Romania	OEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>





<b>sodium hypochlorite (7681-52-9)</b>		
Romania	OEL STEL (ppm)	0,5 ppm
Slovenia	Local name	klor
Slovenia	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	0,5 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	0,5 ppm
Spain	Local name	Cloro
Spain	VLA-EC (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	0,5 ppm
Spain	Notes	(2007), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.)
Sweden	Local name	Chlorine
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	0,5 ppm
Sweden	takgränsvärde (TGV) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Sweden	takgränsvärde (TGV) (ppm)	1 ppm
United Kingdom	Local name	Chlorine
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	0,5 ppm
Iceland	Local name	Klór
Iceland	OEL (15 min ref) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Iceland	OEL (15 min ref) (ppm)	0,5 ppm
Norway	Local name	Klor
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	0,5 ppm
Switzerland	Local name	Chlore
Switzerland	VME (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Switzerland	VME (ppm)	0,5 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	0,5 ppm
Switzerland	Remark (CH)	15 min
Australia	Local name	Chlorine
USA - ACGIH	Local name	Chlorine
USA - ACGIH	ACGIH TWA (ppm)	0,50 ppm
USA - ACGIH	ACGIH STEL (ppm)	1 ppm
USA - ACGIH	Remark (ACGIH)	URT & eye irr
USA - OSHA	Local name	Chlorine
USA - OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (Ceiling) (ppm)	1 ppm
<b>Sodium hydroxide (1310-73-2)</b>		
Austria	Local name	Natriumhydroxid





Sodium hydroxide (1310-73-2)		
Austria	MAK (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Austria	MAK Short time value (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup>
Belgium	Local name	Sodium (hydroxyde de)
Belgium	Limit value (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Belgium	Remark (BE)	M
Bulgaria	Local name	Натриева основа (алкални аерозоли)
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Croatia	Local name	Natrijev hidroksid; (kaustična soda)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Croatia	Naznake (HR)	C
Czech Republic	Local name	Hydroxid sodný
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Denmark	Local name	Natriumhydroxid
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Denmark	Anmærkninger (DK)	L
Estonia	Local name	Naatriumhüdoksiid
Estonia	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Estonia	OEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Finland	Local name	Natriumhydroksidi
Finland	HTP-arvo (15 min)	2 mg/m <sup>3</sup>
France	Local name	Sodium (hydroxyde de)
France	VME (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Greece	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Greece	OEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Hungary	Local name	NÁTRIUM-HIDROXID
Hungary	AK-érték	2 mg/m <sup>3</sup>
Hungary	CK-érték	2 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	m; l.
Ireland	Local name	Sodium hydroxide
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Latvia	Local name	Nātrijahidroksīds (nātrijasārms, kaustiskāsoda)
Latvia	OEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Lithuania	Local name	Natrio hidroksidas
Lithuania	NRV (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Lithuania	Remark (LT)	Ū
Poland	Local name	Wodorotlenek sodu
Poland	NDS (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Portugal	Local name	Hidróxido de sódio
Portugal	OEL - Ceilings (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Romania	Local name	Hidroxizi alcalini exprimati în hidroxid de sodium
Romania	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Romania	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>





<b>Sodium hydroxide (1310-73-2)</b>		
Slovenia	Local name	natrijev hidroksid
Slovenia	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Slovenia	OEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Spain	Local name	Hidróxido de sodio
Spain	VLA-EC (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Sweden	Local name	Sodium hydroxide inhalable dust
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
United Kingdom	Local name	Sodium hydroxide
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Iceland	Local name	Natriumhýdroxið (vítissóti)
Iceland	OEL (15 min ref) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Norway	Local name	Natriumhydroksid
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Norway	Merknader (NO)	T
Switzerland	Local name	Soude caustique
Switzerland	VME (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Switzerland	VLE (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Switzerland	Remark (CH)	15 min
Australia	Local name	Sodium hydroxide
USA - ACGIH	Local name	Sodium hydroxide
USA - ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA - ACGIH	Remark (ACGIH)	URT, eye, & skin irr
USA - OSHA	Local name	Sodium hydroxide
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

## 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide adequate general and local exhaust ventilation.
Personal protective equipment	: Protective clothing. Protective goggles. Gloves.
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended



Environmental exposure controls : Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear to cloudy. opaque. Viscous liquid.
Colour	: Colourless.
Odour	: chlorine-like.







Odour threshold	: No data available
pH	: > 11
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,04 20°C
Solubility	: Soluble in water. Completely miscible.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Contact with acids liberates toxic gas (chlorine).

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Contact with acids liberates toxic gas (chlorine).

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation. pH: > 11
Serious eye damage/irritation	: Causes serious eye damage. pH: > 11
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified





Specific target organ toxicity (single exposure) : Not classified  
Specific target organ toxicity (repeated exposure) : Not classified  
Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

<b>sodium hypochlorite (7681-52-9)</b>	
EC50 Daphnia 1	2,1 mg/l (EC50; 96 h)
LC50 fish 2	0,19 mg/l (LC50; 96 h)
Threshold limit algae 1	0,84 mg/l (EC50; 24 h)
<b>Sodium hydroxide (1310-73-2)</b>	
LC50 fish 1	45,4 mg/l (LC50; Other; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)
EC50 other aquatic organisms 1	48h 40,4 mg/l Crustaceans; Warne, M.S.J., and A.D. Schifko 1999. Toxicity of Laundry Detergent Components to a Freshwater Cladoceran and Their Contribution to Detergent Toxicity. Ecotoxicol. Environ. Saf. 44(2):196-206

### 12.2. Persistence and degradability

<b>sodium hypochlorite (7681-52-9)</b>	
Persistence and degradability	Biodegradability: Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
<b>Sodium hydroxide (1310-73-2)</b>	
Persistence and degradability	Biodegradability: Not applicable. No (test) data available on mobility of the substance.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

### 12.3. Bioaccumulative potential

<b>sodium hypochlorite (7681-52-9)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>Sodium hydroxide (1310-73-2)</b>	
Bioaccumulative potential	Bioaccumulation: No data available.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Waste disposal recommendations : Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.





Ecology - waste materials : Avoid release to the environment.  
European List of Waste (LoW) code : 09 01 05\* - bleach solutions and bleach fixer solutions  
H code : H12 - Waste which releases toxic or very toxic gases in contact with water, air or an acid.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not dangerous goods in terms of transport regulations				
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

#### 14.6.2. Transport by sea

#### 14.6.3. Air transport

#### 14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

Not subject to ADN : No

#### 14.6.5. Rail transport

Carriage prohibited (RID) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	External Paving Cleaner - sodium, alkyl C10-18, ether sulfate - alcohols, C12-15, ethoxylated
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	External Paving Cleaner - sodium, alkyl C10-18, ether sulfate - alcohols, C12-15, ethoxylated
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	alcohols, C12-15, ethoxylated

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances





**15.1.2. National regulations**

**Germany**

Water hazard class (WGK)

: 1 - low hazard to waters

WGK remark

: Classification water polluting based on the components in compliance with  
Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
R2	Risk of explosion by shock, friction, fire or other sources of ignition
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R34	Causes burns
R35	Causes severe burns
R36/38	Irritating to eyes and skin
R37	Irritating to respiratory system
R38	Irritating to skin
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
R8	Contact with combustible material may cause fire
C	Corrosive
E	Explosive
N	Dangerous for the environment
O	Oxidising
Xi	Irritant
Xn	Harmful

SDS EU\_NSC

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*



**Safety Data Sheet - External Paving Cleaner**

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