

Safety Data Sheet

Outdoor Wood Cleaner

Replaces date: 08/03/2025

Revision date: 04/03/2026
Version: 1.1.0

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

1.1. Product identifier

Trade name: Outdoor Wood Cleaner

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

Recommended uses: Cleaner

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Guardian Protection Products A/S
Address: Knudevejen 22
Zip code: 6600
City: Vejen
Country: DENMARK
Email: guardian@guardian.dk
Phone: +45 75471767
Fax: +45 75471787

1.4. Emergency Telephone Number

+45 75 47 17 67 (Guardian Protection Products A/S)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Skin Corr. 1A;H314
Eye Dam. 1;H318

Most serious harmful effects: Causes severe skin burns and eye damage.

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2.2. Label elements

Pictograms



Signal word: Danger

Contains

Substance: Potassium hydroxide; Alcohols, C9-11, ethoxylated; Disodium metasilicate;

Hazard Statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/eye protection.
P303+361+353+310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER/doctor.
P305+351+338+310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.
Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
Potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33	5 - 10 %		Met. Corr. 1;H290 Acute Tox. 4;H302 Skin Corr. 1A;H314 C ≥ 5%: Skin Corr. 1A;H314 2% ≤ C < 5%: Skin Corr. 1B;H314 0.5% ≤ C < 2%: Skin Irrit. 2;H315 0.5% ≤ C < 2%: Eye Irrit. 2;H319
Alcohols, C9-11, ethoxylated	68439-46-3 614-482-0 01-2119980051-45	3 - 5 %		Acute Tox. 4;H302 Eye Dam. 1;H318
Disodium metasilicate	10213-79-3 229-912-9 01-2119449811-37	1 - 3 %		Met. Corr. 1;H290 Skin Corr. 1B;H314 STOT SE 3;H335 LD50 (Acute toxicity - oral): 1152 - 1349 mg/kg bw LD50 (Acute toxicity - dermal): > 5000 mg/kg bw LC50 (dust/mist) (Acute toxicity - inhalation): > 2.06 mg/l

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Please see section 16 for the full text of H- / EUH-phrases.

Ingredient comments: Pursuant to Regulation (EC) No. 648/2004 on detergents:
less than 5%:
non-ionic surfactants

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation:** Seek fresh air. Seek medical advice in case of persistent discomfort.
- Ingestion:** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.
- Skin contact:** Immediately remove contaminated clothing. Wash the skin thoroughly with water and continue washing for a long time. Immediately call a POISON CENTER or doctor/physician.
- Eye contact:** Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.
- General:** When obtaining medical advice, show the safety data sheet or label.

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

Inhalation of vapours may cause irritation to the upper airways. Ingestion may cause caustic burning in mouth, oesophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth. Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin. Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.

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

Treat symptoms. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media:** Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.
- Unsuitable extinguishing media:** Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Extinguishing water which has been in contact with the product may be corrosive. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Wear gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel: Stay upwind/keep distance from source. Stop leak if this can be done without risk. Wear gloves. Wear safety goggles/face protection. Avoid inhalation/keep a distance.

For emergency responders: In addition to the above: Chemical protective suit equivalent to EN 943-2 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth. Rinse with water. Caution! Causes burns.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

A risk assessment must ensure that the employees are not exposed to effects from chemicals. The risk assessment must result in measures preventing exposure.

Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

To be stored safely out of reach of children and not together with food, feed, medicine and the like. Keep in tightly closed original packaging. Store frost-free. Storage temperature: 15 - 25 °C. Do not store with the following: Oxidisers/ Reducing agents/ Acids.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements.

Measuring methods: Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: Commission Directive 2000/39/EC (Occupational Exposure Limits) as subsequently amended. Last amended by Commission Directive 2019/1831/EU. Directive 2004/37/EC (Exposure to carcinogens or mutagens at work) as subsequently amended. Last amended by Directive 2024/869/EU. Directive 2009/148/EC (Exposure to asbestos at work) as subsequently amended. Last amended by Directive 2023/2668/EU.

PNEC

Disodium metasilicate, cas-no 10213-79-3				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	7,5 mg/l			
PNEC aqua (marine water)	1 mg/l			
PNEC STP (wastewater-treatment facilities)	1000 mg/l			

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PNEC aqua (intermittent releases (fresh water))	7,5 mg/l			
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DNEL - workers

Potassium hydroxide, cas-no 1310-58-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - local effects)	1 mg/m ³				
Disodium metasilicate, cas-no 10213-79-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	6,22 mg/m ³				
Inhalation DNEL (long-term exposure - systemic effects)	1,49 mg/m ³				

DNEL - general population

Potassium hydroxide, cas-no 1310-58-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - local effects)	1 mg/m ³				
Disodium metasilicate, cas-no 10213-79-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	1,55 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	0,74 mg/kg bw/day				
Oral DNEL (long-term exposure - systemic effects)	0,74 mg/kg bw/day				

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below. Use the product under well-ventilated conditions.

Personal protective equipment, eye/face protection: Wear safety goggles/face protection. Eye protection must conform to EN 16321.

Personal protective equipment, hand protection: Wear gloves.
Type of material and thickness:
Nitrile rubber/ 0,6 mm.
Neoprene rubber/ 0,3 mm.
Penetration time: > 480 min.
Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
Physical state	Liquid
Colour	Clear
Odour	Weak
Solubility	Miscible with the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Boiling point or initial boiling point and boiling range	No data	
Flammability	No data	
Flammability limits	No data	
Lower and upper explosion limit	No data	
Flash Point	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	13 - 14	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water (log value)	No data	
Vapour pressure	No data	
Density	1 g/cm ³	(20 °C)
Relative density	No data	
Relative vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
VOC (Volatile organic compounds)	0%	

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts under heat generation with the following: Oxidisers/ Reducing agents/ Acids.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

No known information.

10.4. Conditions to avoid

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No known information.

10.5. Incompatible materials

Oxidisers/ Reducing agents/ Acids/ Metals.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

SECTION 11: Toxicological information

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

Acute toxicity - oral

Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		1152 - 1349 mg/kg bw			

Ingestion may cause discomfort. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000 mg/kg bw			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (dust/mist)		> 2.06 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation:

Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin.

Serious eye damage/eye irritation:

Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.

Respiratory sensitisation or skin sensitisation:

The product does not have to be classified. Test data are not available.

Germ cell mutagenicity:

The product does not have to be classified. Test data are not available.

Carcinogenic properties:

The product does not have to be classified. Test data are not available.

Reproductive toxicity:

The product does not have to be classified. Test data are not available.

Single STOT exposure:

Inhalation of vapours may cause irritation to the upper airways. The product does not have to be classified. Test data are not available.

Repeated STOT exposure

Disodium metasilicate, cas-no 10213-79-3

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	NOAEL		227 mg/kg bw/day			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Aspiration hazard: The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: Ingestion may cause caustic burning in mouth, esophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth.

SECTION 12: Ecological information

12.1. Toxicity

Disodium metasilicate, cas-no 10213-79-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Brachydanio rerio		96hLC50	210 mg/l			
Crustacea	Daphnia magna		48hEC50	1700 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

Disodium metasilicate, cas-no 10213-79-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					No bioaccumulation expected.		

No bioaccumulation expected.

12.4. Mobility in soil

Not expected to be mobile in soil.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

The product affects the pH value of the local aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site. Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

EWC code: Depends on line of business and use, for instance

Product: 07 06 11* sludges from on-site effluent treatment containing hazardous substances

Absorbent/cloth contaminated with the product: EWC code: 15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	1719	14.4. Packing group:	II
14.2. UN proper shipping name:	CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide) (Disodium metasilicate)	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	8		
Hazard label(s):	8		
Hazard identification number:	80	Tunnel restriction code:	E

Inland water ways transport (ADN)

14.1. UN number or ID number:	1719	14.4. Packing group:	II
14.2. UN proper shipping name:	CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide) (Disodium metasilicate)	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	8		
Hazard label(s):	8		
Transport in tank vessels:	-		

Sea transport (IMDG)

14.1. UN number or ID number:	1719	14.4. Packing group:	II
14.2. UN proper shipping name:	CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide) (Disodium metasilicate)	14.5. Environmental hazards:	The product is not a Marine Pollutant (MP).
14.3. Transport hazard class(es):	8	Environmental Hazardous Substance Name(s):	
Hazard label(s):	8		
EmS:	F-A, S-B	IMDG Code segregation group:	Segr. grp. 18 - Alkalis (SGG18)

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number or ID number:	1719	14.4. Packing group:	II
14.2. UN proper shipping name:	CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide) (Disodium metasilicate)	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	8		
Hazard label(s):	8		

14.6. Special precautions for user

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None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions: Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product.

Covered by:
Regulation (EC) of the European Parliament and of the Council on detergents.
Council Directive (EC) on the protection of young people at work.

15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119449811-37	Disodium metasilicate
01-2119487136-33	Potassium hydroxide
01-2119980051-45	Alcohols, C9-11, ethoxylated

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.1.0	04/03/2026	SUJ	1,7,9,10,16

Abbreviations:
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity
UFI: Unique formula identifier.

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

Hazard statements

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

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H335

May cause respiratory irritation.

SDS is prepared by

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