

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin MN Outdoor Cleaner

Revision date : 23.05.2017
Print date : 13.06.2017

Version (Revision) : 2.0.0 (1.0.0)
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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Lithofin MN Outdoor Cleaner

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

Relevant identified uses

Mixture Washing and cleaning products, alkaline

1.3 Supplier (manufacturer/importer/only representative/downstream user/distributor)

Supplier : Lithofin AG
Street : Heinrich-Otto-Str. 36
Postal code/city : 73240 Wendlingen
Telephone : +49 (0)7024 9403-0
Telefax : +49 (0)7024 9403-40
Contact : Technical Department
E-mail: info@lithofin.de

Emergency telephone number:
+49 (0)7024 9403-0
(Only available during office hours)

1.4 Emergency telephone number

see section 1.3

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.
Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.
Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

Additional information

This mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Results from in vitro test for skin corrosivity/irritancy: Skin Corr. 1B (OECD 435)

Remark

Full text of H- and EUH-phrases: see section 16.

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05) · Environment (GHS09)

Signal word

Danger

Hazard components for labelling

SODIUM HYPOCHLORITE 6 % ; CAS No. : 7681-52-9
SODIUM HYDROXIDE ; CAS No. : 1310-73-2

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.

Precautionary statements

P102 Keep out of reach of children.
P234 Keep only in original container.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
Supplemental Hazard information (EU)
EUH031 Contact with acids liberates toxic gas.

2.3 Other hazards

Adverse human health effects and symptoms

Due to its pH value (see section 9), irritation of the skin and eyes cannot be ruled out.

2.4 Additional information

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

SODIUM HYPOCHLORITE ; REACH registration No. : 01-2119488154-34-xxxx ; EC No. : 231-668-3; CAS No. : 7681-52-9

Weight fraction : $\geq 5 - < 10$ %

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400

SODIUM CARBONATE ; REACH registration No. : 01-2119485498-19-xxxx ; EC No. : 207-838-8; CAS No. : 497-19-8

Weight fraction : $\geq 1 - < 5$ %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

SODIUM HYDROXIDE ; REACH registration No. : 01-2119457892-27-xxxx ; EC No. : 215-185-5; CAS No. : 1310-73-2

Weight fraction : $\geq 0,5 - < 1$ %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318

COCO DIMETHYLAMINE OXIDE ; REACH registration No. : 01-2119490061-47-xxxx ; EC No. : 931-292-6; CAS No. : 308062-28-4

Weight fraction : $< 0,5$ %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411

Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation.

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

After ingestion

Call a physician immediately. Keep at rest. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

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No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water alcohol resistant foam ABC-powder Carbon dioxide (CO₂) Water spray

Unsuitable extinguishing media

High power water jet Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide Carbon dioxide (CO₂) Hydrogen chloride (HCl) Chlorine (Cl₂)

5.3 Advice for firefighters

Use suitable breathing apparatus.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Suitable material for taking up: Universal binder

6.4 Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff.

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists
Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Measures to prevent fire

The product is not: Flammable Usual measures for fire prevention.

Fire class : -

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container.

Hints on joint storage

Storage class (TRGS 510) : 8B

Recommended storage temperature 5 - 20 °C

Further information on storage conditions

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

Recommendation

Observe technical data sheet. Observe instructions for use.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses with side protection goggles

Required properties

DIN EN 166

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : NBR (Nitrile rubber), 0,4mm, >8h; Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;

Recommended glove articles : Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

Additional hand protection measures : Check leak tightness/impermeability prior to use.

Remark : Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

Protective clothing.

Suitable protective clothing : Chemical protection clothing Chemical resistant safety shoes

Required properties : alkali-resistant.

Recommended protective clothing articles : DIN EN ISO 20345 DIN EN 13034 DIN EN 14605 DIN EN 14404

Remark : Barrier creams are not substitutes for body protection.

Respiratory protection

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

Suitable respiratory protection apparatus

Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

General health and safety measures

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : light yellow

Odour : Chlorine

Safety relevant basis data

Freezing point : (1013 hPa) approx. -11 °C

Initial boiling point and boiling range : (1013 hPa) approx. 102 °C

Decomposition temperature : (1013 hPa) not determined

Flash point : not applicable closed cup

Ignition temperature : not determined

Sustaining combustion No UN Test L2:Sustained combustibility test

Lower explosion limit : not determined

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Upper explosion limit :					not determined
Vapour pressure :	(50 °C)	<	3000	hPa	
Density :	(20 °C)	approx.	1,1	g/cm ³	Pyknometer
Solvent separation test :	(20 °C)	<	3	%	
Water solubility	(20 °C)			miscible	
pH :		approx.	13		
log P O/W :					not determined
Flow time :	(23 °C)	<	15	s	ISO cup 4 mm
Odour threshold :					not determined
Vapourisation rate :					not determined
VOC-FR					not applicable

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

No hazardous reaction when handled and stored according to provisions.

10.5 Incompatible materials

The product develops hydrogen in an aqueous solution in contact with metals.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (SODIUM CARBONATE ; CAS No. : 497-19-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	2800 mg/kg
Parameter :	LD50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 1100 mg/kg
Method :	OECD 401
Parameter :	LD50 (COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 300 - 2000 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	LD50 (COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 402
Parameter :	LD50 (SODIUM CARBONATE ; CAS No. : 497-19-8)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Exposure route :	Dermal

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Species : Rabbit
Effective dose : > 20000
Method : OECD 402

Acute inhalation toxicity

Parameter : LC50 (SODIUM CARBONATE ; CAS No. : 497-19-8)
Exposure route : Inhalation
Species : Rat
Effective dose : 2,3 mg/l
Method : OECD 403

Parameter : LC50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Exposure route : Inhalation
Species : Rat
Effective dose : > 10,5 mg/l
Exposure time : 1 h
Method : OECD 403

Specific symptoms in animal studies

No data available

Irritant and corrosive effects

Assessment/classification

Causes serious eye damage. Causes severe burns. Results from in vitro test for skin corrosivity/irritancy: Skin Corr. 1B (OECD 435)

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indication of human carcinogenicity.

Germ cell mutagenicity

In vivo mutagenicity

Other information

No experimental indications of in vivo mutagenicity exist.

Human toxicological data

Other information

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

Practical experience/human evidence

No indications of human reproductive toxicity exist.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species : Fish
Effective dose : 125 mg/l
Exposure time : 96 h

Parameter : LC50 (SODIUM CARBONATE ; CAS No. : 497-19-8)
Species : Fish
Effective dose : 300 mg/l
Exposure time : 96 h

Parameter : LC50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Species : Fish
Effective dose : 0,06 mg/l
Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Species : Fish
Effective dose : 0,04 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4)

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Species : Fish
Effective dose : > 1 - 10 mg/l
Exposure time : 96 h
Parameter : EC50 (COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4)
Species : Daphnia
Effective dose : > 1 - 10 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (SODIUM CARBONATE ; CAS No. : 497-19-8)
Species : Daphnia
Effective dose : 200 - 227 mg/l
Exposure time : 48 h
Parameter : EC50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Species : Daphnia
Effective dose : 0,141 mg/l
Exposure time : 48 h

Acute (short-term) algae toxicity

Parameter : IC50 (COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4)
Species : Algae
Effective dose : > 0,1 - 1 mg/l
Exposure time : 72 h
Method : OECD 201

Chronic (long-term) algae toxicity

Parameter : NOEC (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Species : Algae
Effective dose : 0,0021 mg/l
Exposure time : 7 d

Bacteria toxicity

Parameter : EC50 (SODIUM HYDROXIDE ; CAS No. : 1310-73-2)
Species : Bacteria toxicity
Effective dose : 22 mg/l
Exposure time : 15 min
Parameter : EC50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Species : Bacteria toxicity
Effective dose : > 3 mg/l
Exposure time : 3 h
Parameter : EC50 (COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4)
Species : Bacteria toxicity
Effective dose : 190 mg/l
Exposure time : 16 h
Method : DIN 38412 / part 8

Sediment toxicity

Toxicity to soil macroorganisms

Acute earthworm toxicity

Chronical earthworm toxicity (reproduction)

Long-term toxicity of organisms living in the sediment

Effects in sewage plants

Observe local regulations concerning effluent treatment. Before discharge into sewage plants the product normally needs to be neutralised.

12.2 Persistence and degradability

No data available

Abiotic degradation

Abiotic degradation in Water

Hydrolysis

Biodegradation

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

No data available

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No data available

12.7 Additional ecotoxicological information

Additional information

The product has not been tested.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Waste code (91/689/EEC) : 16 03 03*

Waste code packaging

Waste code packaging: 15 01 10*

Waste treatment options

29/35 - Do not empty into drains; dispose of this material and its container in a safe way. Delivery to an approved waste disposal company.

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number

UN 1719

14.2 UN proper shipping name

Land transport (ADR/RID)

CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYPOCHLORITE · SODIUM HYDROXIDE)

Sea transport (IMDG)

CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYPOCHLORITE · SODIUM HYDROXIDE)

Air transport (ICAO-TI / IATA-DGR)

CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYPOCHLORITE · SODIUM HYDROXIDE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C5
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 11 · E 2
Hazard label(s) : 8 / N

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 11 · E 2 · Segregation Group 18 - Alkalis
Hazard label(s) : 8 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 2
Hazard label(s) : 8

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14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (clp)

Directive 2008/98/EC of the European Parliament and of the Council on waste (2000/532/EC)

EN 2:1992 (DIN EN 2:2005-01)

Other regulations (EU)

Regulation (EC) No. 648/2004 (Detergents regulation) Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work. (Directive 2000/39/EC, Directive 2006/15/EC, Directive 2009/161/EC)

National regulations

Observe in addition any national regulations! TRGS 510

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

VOCV-Regulation (CH)

Maximum VOC content (Switzerland) : < 3 Wt % according to VOCV

15.2 Chemical safety assessment

No information available.

15.3 Additional information

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

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None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
