

## ! 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>Name of product</b>	Lithofin MN Outdoor Cleaner
<b>Distributor</b>	CASDRON Enterprises Ltd. Wood End, Prospect Road, Alresford Hampshire SO24 9QF Phone 0 19 62 73 21 26, Fax 0 19 62 73 53 73
Advice	Technical Department Phone 0 19 62 73 21 26
<b>Manufacturer</b>	LITHOFIN AG Heinrich-Otto-Straße 42, D-73240 Wendlingen Phone +49 (0)7024 94 03-0
Advice	Labor Phone +49 (0)7024 9403-0 Fax +49 (0)7024 9403-40
Emergency advice	Phone +49 (0)7024 9403-0 (8.00-16.00 h) Phone +49 (0)7024 94 03-0
<b>Recommended intended purpose(s)</b>	Cleaner

## 2. HAZARDS IDENTIFICATION

### Classification

Xi; R36/38

### R-phrases

36/38 Irritating to eyes and skin.

### Special hazards information for humans and environment

Contact with acids releases toxic gas.

## ! 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical characterization

Cleaner with hypochlorite

### ! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification
497-19-8	207-838-8	sodium carbonate	< 20	Xi R36
7681-52-9	231-668-3	sodium-hypochlorite	< 5	C R34; R31; N R50

### Additional advice

These hazards apply to the contained raw materials in concentrated form. they have nothing to do with the labeling requirements of the finished product. The labeling requirements for the finished product are listed as item 15.

#### 4. FIRST AID MEASURES

**General information**

Remove contaminated soaked clothing immediately.

**In case of inhalation**

Ensure of fresh air.

**In case of skin contact**

In case of contact with skin wash off immediately with soap and water.

**In case of eye contact**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**In case of ingestion**

Do not induce vomiting.

If swallowed by mistake drink plenty of water and seek medical treatment.

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#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Chlorine (Cl<sub>2</sub>)

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

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#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Ensure adequate ventilation.

Use personal protective clothing.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**Methods for cleaning up**

Take up with absorbent material (e.g. general-purpose binder).

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#### 7. HANDLING AND STORAGE

**Advice on safe handling**

Use only alkali-resistant equipment.

Use only in well-ventilated areas.

**Further information on storage conditions**

Keep container tightly closed, store at cool and aired place, open and handle carefully.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Respiratory protection

Short term: filter apparatus, Filter B

### Hand protection

chemical-resistant gloves

### Eye protection

safety goggles

### Skin protection

Alkali-resistant protective clothing

### General protective measures

Avoid contact with eyes and skin

### Hygiene measures

At work do not eat, drink and smoke.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form**  
liquid

**Colour**  
yellowish

**Odour**  
pungent

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	> 12				
<b>starts to boil</b>	> 90 °C				
<b>Flash point</b>	not applicable				
<b>Density</b>	ca. 1,1 g/cm <sup>3</sup>				
<b>Solubility in water</b>					multimiscible

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## 10. STABILITY AND REACTIVITY

### Conditions to avoid

Evolution of chlorine under influence of acids.

### Materials to avoid

Reactions with reducing agents.

### Hazardous decomposition products

Chlorine

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD 50 acute oral</b>	not determined			
<b>LD 50 acute dermal</b>	not determined			
<b>LC 50 acute inhalation</b>	not determined			

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## 12. ECOLOGICAL INFORMATION

### Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	not determined			
<b>Biological degradability</b>	not determined			

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## 13. DISPOSAL CONSIDERATIONS

### Waste code No.

16 03 03\*

### Name of waste

inorganic wastes containing dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

### Recommendations for the product

Remove in accordance with local official regulations.

### Recommendations for packaging

Totally emptied packaging may be taken for recycling.

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## 14. TRANSPORT INFORMATION

### Land and inland navigation transport ADR/RID

UN - no dangerous good

### Marine transport IMDG

UN - no dangerous good

### Air transport ICAO/IATA-DGR

UN - no dangerous good

## 15. REGULATORY INFORMATION

### Remarks for classification

The product is classified and labelled in accordance with EC directives.

### Classification

**Xi** Irritant

### R-phrases

36/38 Irritating to eyes and skin.

### S-phrases

2 Keep out of the reach of children.  
23.4 Do not breathe spray.  
46 If swallowed, seek medical advice immediately and show this container or label.  
50.1 Do not mix with acids.  
51 Use only in well-ventilated areas.

### Hazardous ingredients for labeling

sodium-hypochlorite

### Special labelling for certain preparations

Warning! Do not use together with other products. May release dangerous gases (chlorine).

### National regulations

**Water hazard class** 2 VwVwS (17. 05. 1999)

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## 16. OTHER INFORMATION

### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

### Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)

R 31 Contact with acids liberates toxic gas.  
R 34 Causes burns.  
R 36 Irritating to eyes.  
R 50 Very toxic to aquatic organisms.