

**1. Identification of the substance/preparation**

<b>Name of product</b>	<b>Lithofin MN-Outdoor-Cleaner</b>
<b>Manufacturer/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
<b>Advice</b>	Technical Department Phone 0 19 62 73 21 26
<b>! Recommended intended purpose(s)</b>	
Cleaner	

**2. Composition/information on ingredients****Chemical characterization**

Cleaner with hypochlorite

**Hazardous ingredients**

<b>CAS-No.</b>	<b>EC-No.</b>	<b>Name</b>	<b>[% weight]</b>	<b>Classification</b>
007681-52-9	231-668-3	sodium-hypochlorite	< 5	C R34; R31

**3. Special hazards information for man and environment****R-phrases**

36/38 Irritating to eyes and skin.

**Special hazards information for humans and environment**

Contact with acids releases toxic gas.

**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.

**5. Fire-fighting measures****Suitable extinguishing material**

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

**Special exposure hazards arising from the substance, combustible products or resulting gases**Chlorine (Cl<sub>2</sub>)**Special protective equipment for firefighters**

Use breathing apparatus with independent air supply.

**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/taking up**

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

**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.

**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.

**9. Physical and chemical properties****Form**

liquid

**Colour**

yellowish

**Odour**

pungent

**Data relevant for safety**

	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

**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

## 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			

## 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			

## 13. Disposal considerations

<b>Waste code No.</b> 03 03 99	<b>Name of waste</b> wastes not otherwise specified
-----------------------------------	--

**Recommendations for the product**  
Remove in accordance with local official regulations.

**Recommendations for packaging**  
Totally emptied packaging may be taken for recycling.

## 14. Transport information

### Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)

**Identification** no dangerous good

### Marine transport IMDG/GGV See

**Proper shipping name** no dangerous good

### Air transport ICAO/IATA

**Proper shipping name** 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 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
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 because dangerous gases (chlorine) can be released.

**National regulations**

**Classification according to VbF/  
remarks**

VbF: is not subject to decree for combustible liquids.

**Water hazard class**

2 VwVwS (17. 05. 1999)

---

**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 2 (not the classification of the formulation!)**

R 31 Contact with acids liberates toxic gas.

R 34 Causes burns.