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## SAFETY DATA SHEET

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### 1 Identification of the substance or preparation and the supplier

Product Name: **SOOTREMOVER**  
 Datasheet Number: 571240 2.0.0  
 Use of the substance/preparation: Post combustion treatment, Soot remover  
 Product Part Number: 571240 (25 kg)

Name of Supplier: Unitor ASA  
 Address of Supplier: Willem Barentszstraat 50  
 3165 AB Rotterdam-Albrandswaard  
 The Netherlands

Telephone: +31 10 4877 777  
 Fax: +31 10 4877 888  
 Responsible Person: Leen de Visser, Corporate Product Safety Manager, Tel.: +31 6 538 63736

Name of Manufacturer: UNITOR CHEMICALS AS  
 Address of Manufacturer: P.O.Box 15  
 3141 Kjøpmannskjær  
 Norway.  
 Telephone: +47 333 515 00

Emergency Telephone: NCEC: +44 1865 407333  
 CHEMTREC (800) 424 9300  
 CMA +1 703 527 3887  
 Greece +30 1 7793777

### 2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Copper hydroxide carbonate	10-30	12069-69-1	235-113-6	22	Xn
Non classified ingredients	60-90				

### 3 Hazards identification

- Odour: Odourless
- Appearance: hygroscopic, powder, green, soluble in water
- Contact with eyes: Causes irritation
- Contact with skin: In cases of severe exposure, irritation may develop
- Inhalation: Severely irritating to respiratory system
- Ingestion: Harmful if swallowed (R22)



Harmful

## 4 First aid measures

### Contact with skin

- Remove contaminated clothing
- Wash affected area with plenty of water
- Seek medical attention if irritation persists
- Contaminated clothing should be laundered before reuse

### Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Obtain immediate medical attention

### Ingestion

- Induce vomiting (only if patient is conscious)
- Never give anything by mouth to an unconscious person
- Give water or milk to drink
- Seek immediate medical attention

### Inhalation

- Inhalation is unlikely to occur
- Remove patient to fresh air
- When in doubt or symptoms persist, seek medical attention

### General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
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## 5 Fire-fighting measures

- Non-combustible solid
  - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
  - Prevent run off water from entering drains if possible
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## 6 Accidental release measures

### Personal Precautions

- Wear protective clothing as per section 8

### Environmental Precautions

- Do not allow to enter public sewers and watercourses

### Clean Up Actions

- Sweep or shovel-up spillage and remove to a safe place
- Ventilate the area and wash spill site after material pick-up is complete

### Special Precautions

- Wear protective clothing as per section 8
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## 7 Handling and storage

### Handling

- Wear protective clothing as per section 8
  - Avoid contact with skin and eyes (S24/25)
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## 7 Handling and storage (....)

- Do not breathe dust (S22)
- Eyewash bottles should be available

### Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
- Protect from moisture

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## 8 Exposure controls and personal protection

### Exposure Limits

- No exposure limits have been set for this substance

### Exposure controls

- No special precautions are required for this product

### Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists



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## 9 Physical and chemical properties

- Odour: Odourless
- Appearance: hygroscopic, powder, green, soluble in water
- pH 6 at 1 % concentration
- Boiling point - not applicable
- Vapour pressure - not applicable
- Vapour density - not applicable
- Melting point - not known
- Water solubility ~ 100 g/l
- Density 1000 kg/m<sup>3</sup>
- Non-combustible solid

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## 10 Stability and reactivity

- This article is considered stable under normal conditions
- Keep away from moist air or water

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## 11 Toxicological information

### Toxicological information

- LD50 (oral,rat) 1350 mg/kg
- ( Copper hydroxide carbonate)

## 11 Toxicological information (...)

### Inhalation

- Causes irritation

### Contact with skin

- Causes irritation

### Contact with eyes

- Causes severe irritation

### Ingestion

- Harmful if swallowed (R22)
- The ingestion of significant quantities may cause damage to stomach lining
- The ingestion of significant quantities may cause diarrhoea
- The ingestion of significant quantities may cause pain

### Carcinogenicity

- No evidence of carcinogenic effects
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## 12 Ecological information

### Ecotoxicity

- May cause acute effects in the aquatic environment

### Mobility

- Water solubility ~ 100 g/l

### Persistence and Biodegradability

- Degrades by hydrolysis

### Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

### Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.

In its intended use, the product will not be released into the environment.

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## 13 Disposal considerations

### Classification

- EU Waste class: 06.04.02

### Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
  - Disposal should be in accordance with local, state or national legislation
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## 14 Transport information

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**14 Transport information (....)**


Toxic

## UN

Proper Shipping Name: Toxic solid, inorganic, n.o.s (copper hydroxide carbonate)  
 UN No.: 3288

Hazard Class: 6.1 Packing Group: III

## Road/Rail (ADR/RID)

Proper Shipping Name: Toxic solid, inorganic, n.o.s (copper hydroxide carbonate)  
 ADR UN No.: 3288

ADR Hazard Class: 6.1 Tremcard: 61GT5-III

## Sea (IMDG)

Proper Shipping Name: Toxic solid, inorganic, n.o.s (copper hydroxide carbonate)  
 IMDG UN No.: 3288

IMDG Hazard Class.: 6.1 IMDG Pack Group.: III

IMDG EmS: F-A, S-A IMDG subrisk: N/A

IMDG labels: 6.1 IMDG Flashpoint: N/A

## Air (ICAO/IATA)

Proper Shipping Name: Toxic solid, inorganic, n.o.s (copper hydroxide carbonate)  
 ICAO Un No.: 3288

ICAO Hazard Class.: 6.1 ICAO Packing Group.: III

ICAO subrisk: N/A ICAO Labels: 6.1

ICAO Flashpoint: N/A

## DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name: Toxic solid, inorganic, n.o.s (copper hydroxide carbonate)  
 Hazardous Material: copper hydroxide carbonate

Hazard Class: 6.1 Identification Number: UN 3288

Product RQ (lbs): N/E DOT subrisk: N/A

DOT labels: 6.1 DOT Flashpoint: N/A

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## 14 Transport information (....)

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## 15 Regulatory information



Harmful

### Risk Phrases

- Harmful if swallowed (R22)

### Safety Phrases

- Wear suitable protective clothing, eye/face protection (S36/39)
  - If swallowed seek medical advice immediately and show this container or label (S46)
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## 16 Other information

(R22: Harmful if swallowed.)

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)