

SAFETY DATA SHEET

1. Identification of the substance or preparation and of the company/undertaking

Product Name: SOOT REMOVER

Details of the supplier of the safety data sheet

Company:

Unimarine Services Inc.
60 Market Square,
PO Box 364, Belize City

Contact your nearest Unimarine sales office

Representative office in Greece:

Email: info@unimarine.gr
Tel: +30 210 9957279

1.4 Emergency Telephone Number

Emergency Telephone: Only to be used in case of incident
Tel: 00357 25 662068

2. Hazards identification

Harmful

- 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

Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

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)

3. Composition/information on ingredients

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

*See Section 16

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, protective equipment and emergency procedures

- Wear protective clothing as per section 8

Environmental Precautions

- Do not allow to enter public sewers and watercourses

Methods and material for containment and cleaning up

- 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

Precautions for safe handling

- Wear protective clothing as per section 8
- Avoid contact with skin and eyes (S24/25)
- Do not breathe dust (S22)
- Eyewash bottles should be available

Conditions for safe storage, including any incompatibilities

- 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/personal protection

Control parameters

- 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



Goggles



Gloves



Suit



No Smoking

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/m³
- Non-combustible solid

10. Stability and reactivity

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

11. Toxicological information

Information on toxicological effects

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

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

12. Ecological information

Ecotoxicity

- May cause acute effects in the aquatic environment

Persistence and degradability

- Degrades by hydrolysis

Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

Mobility in soil

- Water solubility ~ 100 g/l

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

Waste treatment methods

- 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

Classification

- EU Waste class: 06.04.02
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14. Transport information



Toxic

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

Road/Rail (ADR/RID)

Proper Shipping Name:	Toxic solid, inorganic, n.o.s (copper hydroxide carbonate)		
ADR UN No.:	UN3288	ADR Hazard Class:	6.1
ADR Packing Group:	III	ADR subrisk:	-
ADR Flashpoint:	-		

Sea (IMDG)

Proper Shipping Name:	Toxic solid, inorganic, n.o.s (copper hydroxide carbonate)		
IMDG UN No.:	UN3288	IMDG Hazard Class.:	6.1
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-A
IMDG subrisk:	-	IMDG Flashpoint:	-

Air (ICAO/IATA)

Proper Shipping Name:	Toxic solid, inorganic, n.o.s (copper hydroxide carbonate)		
ICAO Un No.:	UN3288	ICAO Hazard Class.:	6.1
ICAO Packing Group.:	III	ICAO subrisk:	-
ICAO Flashpoint:	-		

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:	UN3288
Product RQ (lbs):	-	DOT subrisk:	-
DOT Flashpoint:	-		

15. Regulatory information

Classification and labelling

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

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

- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
 - This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
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16. Other information

The information contained herein relates only to the specific material identified. Unimarine Services Inc. Believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Unimarine Services Inc. urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application