

SAFETY DATA SHEET

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

Product Name: SOOT REMOVER LIQUID

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

Emergency Telephone Number

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

2. Hazards identification

Irritant

- Odour: Odourless
- Appearance: Liquid, blue, soluble in water
- Inhalation: Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- Ingestion: May cause gastro-intestinal disturbances

Classification of the substance or mixture

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

Risk Phrases

- Harmful if swallowed (R22)
- Irritating to eyes and skin (R36/38)

Safety Phrases

- Avoid contact with skin and eyes (S24/25)
- Wear suitable gloves and eye/face protection (S37/39)

3. Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Ammonium nitrate	5-10%	6484-52-2	229-347-8	8	O
Potassium nitrate	5-10%	7757-79-1	231-818-8	8	O
Copper nitrate (43% in H ₂ O)	1-5%	10031-43-3	221-838-5	22, 36/38	Xn
Magnesium nitrate	5-10%	13446-18-9	233-826-7	8, 16	O
Non classified ingredients	60-90%				

3. Composition/information on ingredients

*See Section 16

4. First aid measures

Contact with skin

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

Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Seek medical advice

Ingestion

- Never give anything by mouth to an unconscious person
- Do not induce vomiting
- Give water or milk to drink
- Obtain 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

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
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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

- Absorb spillage in inert material and shovel up
- Flush spill area with copious amounts of water

Special Precautions

- Do not flush spilt material into any public water system
 - 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)
- 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 frost
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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)
- No respiratory protection is required unless subject to contact with substance mist



Gloves



Goggles



Suit



No Smoking

9. Physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, blue, soluble in water
- pH 2.5 - 3.5 at 100 % concentration
- Boiling point >100 °C at 760 mm /Hg
- Vapour pressure - not known
- Vapour density - not applicable
- Freezing point <0 °C at 760 mm/Hg
- Completely soluble in water
- Specific gravity (water=1) 1.121

10. Stability and reactivity

- This article is considered stable under normal conditions
- Avoid overheating, Avoid contact with metal

11. Toxicological information

Information on toxicological effects

- LD50 (oral, rat) 940 mg/kg
- (Copper nitrate)
- LD50 (oral) : 5440 mg/kg
- (Magnesium nitrate)

Inhalation

- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract

Contact with skin

- Causes irritation

Contact with eyes

- Causes redness and irritation

Ingestion

- The ingestion of significant quantities may cause nausea/vomiting
- The ingestion of significant quantities may cause diarrhoea
- By comparison with analogous substances, it is concluded that it may be harmful

Carcinogenicity

- No evidence of carcinogenic effects

12. Ecological information

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Ecotoxicity

- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

Persistence and degradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

Mobility in soil

- Completely soluble in water

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: 06.03
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14. Transport information



Corrosive

Proper Shipping Name: Corrosive liquid, n.o.s. (copper salts)

Road/Rail (ADR/RID)

Proper Shipping Name:	Corrosive liquid, n.o.s. (copper salts)		
ADR UN No.:	UN1760	ADR Hazard Class:	8
ADR Packing Group:	III	ADR subrisk:	-
ADR Flashpoint:	-		

Sea (IMDG)

Proper Shipping Name:	Corrosive liquid, n.o.s. (copper salts)		
IMDG UN No.:	UN1760	IMDG Hazard Class.:	8
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-B
IMDG subrisk:	-		

Air (ICAO/IATA)

Proper Shipping Name:	Corrosive liquid, n.o.s. (copper salts)		
ICAO Un No.:	UN1760	ICAO Hazard Class.:	8
ICAO Packing Group.:	III	ICAO subrisk:	-
ICAO Flashpoint:	-		

14. Transport information

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Corrosive liquid, n.o.s. (copper salts)		
Hazardous Material:	Copper salts		
Hazard Class:	8	Identification Number:	UN1760
Product RQ (lbs):	5000	DOT subrisk:	-
DOT Flashpoint:	-		

Special precautions for user

- Forbidden on passenger aircraft
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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