

**SAFETY DATA SHEET**  
according to Regulation (EU) 2020/878

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**SOOT REMOVER POWDER**

Revision  
Revision date 2026-03-18

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1. Product identifier

SOOT REMOVER POWDER

Product name

1.3. Details of the supplier of the safety data sheet

Company

Star International

+44 (0) 1244 504 500

Address

Star House,

Turbine Business Park,

[www.star-intemational.co.uk](http://www.star-intemational.co.uk)

Turbine Road,

Birkenhead, CH41 9BA

[enquiries@star-international.co.uk](mailto:enquiries@star-international.co.uk)

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1244 504 500

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

2.1.2. Classification - EC  
1272/2008

Repr. 1B: H360FD; Aquatic Chronic 2: H411;

2.2. Label elements

Hazard pictograms



Signal Word

Danger

Hazard Statement

Repr. 1B: H360FD - May damage fertility. May damage the unborn child.  
Aquatic Chronic 2: H411- Toxic to aquatic life with long lasting effects.

Precautionary Statement:  
Prevention

P201- Obtain special instructions before use.

Precautionary Statement:  
Response

P202 - Do not handle until all safety precautions have been read and understood.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

**SECTION 3: Composition/information on ingredients**

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## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
ZINC DUST					10 - 20%	Aquatic Chronic 1: H410;
DISODIUM TETRABORATE PENTAHYDRATE					1 - 10%	Eye Irrit. 2: H319; Repr. 1B: H360FD;

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly.

## 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Dust in high concentrations may irritate the respiratory system. Symptoms following overexposure may include respiratory irritation or coughing.
Eye contact	Causes severe eye irritation, symptoms following exposure may include irritation, redness and profuse watering of the eyes.
Skin contact	Skin irritation, redness, dryness and cracking.
Ingestion	Symptoms following over exposure may include nausea, vomiting, diarrhoea. Effects may be delayed.

## General information

May damage fertility. May damage the unborn child.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Use as appropriate: Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam.

## 5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes. In case of accident by inhalation: remove casualty to fresh air and keep at rest. Wear chemical protective clothing. Wear suitable respiratory equipment when necessary.

## 5.3. Advice for firefighters

Self-contained breathing apparatus. Wear protective clothing.

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Wear suitable protective equipment.

## 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

## 6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

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## 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

### Suitable packaging

Keep container tightly closed and in a well-ventilated place. Store in original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

ZINC DUST	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 1.25
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
	WEL 8-hr limit mg/m3 total inhalable dust:	WEL 15 min limit mg/m3 total inhalable dust:
	WEL 8-hr limit mg/m3 total respirable dust:	WEL 15 min limit mg/m3 total respirable dust:

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area. Eyewear complying with an approved standard <u>should be worn. Equipment should meet EN standard 166.</u>
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical-resistant, impervious gloves complying with an approved standard should be worn.
Skin protection - Other	Wear suitable protective clothing and eye/face protection.
Respiratory protection	Self-contained breathing apparatus. Wear protective clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	= Solid
Colour	= White
pH	= 8.5
Melting point	= 737
Initial boiling point	= 1329
Solubility	= Soluble in water

### 9.2. Other information

Surface tension	No data available
Specific gravity	= 3.01

## SECTION 10: Stability and reactivity

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Will not decompose if stored and used as recommended.

### 10.4. Conditions to avoid

Heat

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## 10.5. Incompatible materials

Strong acids. Strong oxidising agents.

## 10.6. Hazardous decomposition products

Burning produces irritating, toxic and obnoxious fumes. Will not decompose if stored and used as recommended.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes

Reproductive toxicity | May damage fertility, may damage the unborn child.

#### 11.1.4. Toxicological Information

DISODIUM TETRABORATE  
PENTAHYDRATE  
ZINC DUST

Dermal Rat LD50: 3305 mg/kg

Dermal Rabbit LD50: 2000 mg/kg

Dermal Rat LD50: >2000 mg/kg

## SECTION 12: Ecological information

### 12.3. Bioaccumulative potential

No data is available on this product.

### 12.4. Mobility in soil

No data available.

### Further information

Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty. Care should be taken when handling used containers.

## SECTION 13: Disposal considerations

### General information

Dispose of in compliance with all local and national regulations.

### Disposal methods

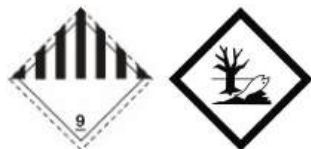
Do not empty into drains; dispose of this material and its container in a safe way. Local and national regulations.

### Disposal of packaging

Dispose of this material and its container to hazardous or special waste collection point. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

## SECTION 14: Transport information

### Hazard pictograms



### 14.1. UN number

UN3077

### 14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

### 14.3. Transport hazard class(es)

ADR/RID	9
Subsidiary risk	-

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## 14.3. Transport hazard class(es)

IMDG	9
Subsidiary risk	
IATA	9
Subsidiary risk	

## 14.4. Packing group

Packing group	III
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## 14.5. Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

## ADR/RID

Hazard ID	90
Tunnel Category	

## IMDG

EmS Code	F-A S-F
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## IATA

Packing Instruction (Cargo)	956
Maximum quantity	400 kg
Packing Instruction (Passenger)	956
Maximum quantity	400 kg

**SECTION 15: Regulatory information**

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

Regulations	COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
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**SECTION 16: Other information**

## Other information

Revision	This document differs from the previous version in the following areas: 2 - 2.1.2. Classification - EC 1272/2008. 4 - Skin contact. 4 - Eye contact. 4 - Inhalation. 4 - Ingestion. 4 - General information. 4 - Inhalation. 4 - Eye contact. 4 - Skin contact.
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## Other information

- 4 - Ingestion.
- 5 - 5.2. Special hazards arising from the substance or mixture.
- 7 - Suitable packaging.
- 8 - 8.2.1. Appropriate engineering controls.
- 8 - Skin protection - Handprotection.
- 8 - Skin protection - Other.
- 9 - 9.1. Information on basic physical and chemical properties (Appearance).
- 9 - 9.1. Information on basic physical and chemical properties (Colour).
- 9 - 9.1. Information on basic physical and chemical properties (PH).
- 9 - 9.1. Information on basic physical and chemical properties (Initial boiling point).
- 9 - 9.1. Information on basic physical and chemical properties (Melting point).
- 9 - 9.1. Information on basic physical and chemical properties (Solubility).
- 9 - 9.2. Other information (Surface tension).
- 9 - 9.2. Other information (Specific gravity).
- 10 - 10.4. Conditions to avoid.
- 10 - 10.3. Possibility of hazardous reactions.
- 10 - 10.6. Hazardous decomposition products.
- 10 - 10.5. Incompatible materials.
- 11 - Reproductive toxicity.
- 12 - 12.4. Mobility in soil.
- 12 - 12.3. Bioaccumulative potential.
- 12 - Further information.
- 13 - Disposal methods.
- 13 - Disposal of packaging.
- 14 - ADR/RID.
- 14 - IMDG.
- 14 - IATA.
- 15 - Regulations.

## Text of Hazard Statements in Section 3

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  
 Eye Irrit. 2: H319 - Causes serious eye irritation.  
 Repr. 1B: H360FD - May damage fertility. May damage the unborn child.

## Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.