



# Drain Boss

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 2.3. Other Hazards

Other hazards not contributing to the classification : Reacts with water (moisture): release of heat.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sulphuric Acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (REACH-no) 01-2119958838-20	94 - 97	Skin Corr. 1, H314

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Sulphuric Acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (REACH-no) 01-2119958838-20	( 5 ≤C < 15) Skin Irrit. 2, H315 ( 5 ≤C < 15) Eye Irrit. 2, H319 ( 15 ≤C < 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of First Aid Measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a physician if symptoms occur.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Consult an eye specialist. In case of contact, immediately flush eye with plenty of water for at least 15 minutes.
First-aid measures after ingestion	: Drinking water. Rinse mouth out with water. Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/Effects : Causes Severe Burns.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Rinse with plenty of water.

## SECTION 5: Firefighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Dry Powder. Sand.
Unsuitable extinguishing media	: Strong Water Jet.

### 5.2. Special Hazards arising from the Substance or Mixture

Hazardous decomposition products in case of fire : Toxic Fumes may be released.

### 5.3. Advice for Firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Keep upwind. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental Precautions

Avoid release to the environment.

#### 6.3. Methods and Material for Containment and Cleaning Up

For containment : Liquid spill: neutralize with powdered limestone or sodium bicarbonate. Rinse with plenty of water.

Other information : Only qualified personnel equipped with suitable protective equipment may intervene. Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and Storage

#### 7.1. Precautions for Safe Handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. In case of inadequate ventilation wear respiratory protection. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for Safe Storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials : Bases. Flammable materials. Chlorates. Nitrates. Oxidising substances.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure Controls / Personal Protection

#### 8.1. Control parameters

Drain Boss	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit value should be used

Drain Boss	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

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### 8.2. Exposure Controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Butyl rubber	6 (> 480 minutes)			
Reusable gloves	Polyethylene	6 (> 480 minutes)			
Reusable gloves	Viton	5 (> 240 minutes)			

#### Eye protection:

Tightly fitting safety goggles

#### Skin and body protection:

Wear suitable protective clothing. Protect eyes, face and skin from liquid splashes.

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Avoid contact with skin and eyes. Wash hands before breaks and after work. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

## SECTION 9: Physical and Chemical Properties

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

Physical state	: Liquid
Appearance	: Oily.
Colour	: Colourless. clear.
Odour	: No data available
Odour threshold	: No data available
pH	: < 1
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: ≈ -1 °C 98% H <sub>2</sub> SO <sub>4</sub>
Boiling point	: ≈ 327 °C 98% H <sub>2</sub> SO <sub>4</sub>
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 300 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: 0.0121 Pa @ 20°C, 98% H <sub>2</sub> SO <sub>4</sub>
Relative vapour density at 20 °C	: No data available
Relative density	: No data available

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Density	: 1.8 g/cm <sup>3</sup> 98% H <sub>2</sub> SO <sub>4</sub>
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: ≈ 16.667 mm <sup>2</sup> /s
Viscosity, dynamic	: ≈ 30 mPa·s @ 20°C, 98% H <sub>2</sub> SO <sub>4</sub>
Explosive properties	: No data available
Oxidising properties	: None.
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

Exothermic reaction with water. Do not add water to product. Liquid splashes may occur.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Contact with metals produces hydrogen gas which may form explosive mixtures with air.

### 10.4. Conditions to avoid

High temperature.

### 10.5. Incompatible materials

Flammable materials. Bases. Nitrates. Oxidizing agent.

### 10.6. Hazardous decomposition products

Sulfur dioxide and hydrogen chloride (acidic gases).

## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Drain Boss	
LD50 oral rat	2140 mg/kg bodyweight Animal: rat, 95% CL: 1540 - 2990
LC50 inhalation rat (mg/l)	0.375 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation	: Causes severe skin burns. pH: < 1
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: < 1
Respiratory or skin sensitisation	: No sensitisation responses were observed
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

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Aspiration hazard : Not classified

Drain Boss	
Viscosity, kinematic	≈ 16.667 mm <sup>2</sup> /s

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Not rapidly degradable

Drain Boss	
EC50 Daphnia 1	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.15 mg/l Test organisms (species): other: Tanytarsus dissimilis
NOEC chronic fish	0.31 mg/l Test organisms (species): Salvelinus fontinalis

### 12.2. Persistence and degradability

Drain Boss	
Persistence and degradability	Not applicable. Inorganic Particulate Matter.

### 12.3. Bioaccumulative potential

Drain Boss	
Bioaccumulative potential	No bioaccumulation.

### 12.4. Mobility in soil

Drain Boss	
Ecology - soil	To protect soil and water living organisms, application of this product is restricted to indoor areas or areas under roof with a hard standing, where drain away to soil or surface water can be prevented.

### 12.5. Results of PBT and vPvB assessment

Drain Boss	
Results of PBT assessment	This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal Considerations





#### 13.1. Waste treatment methods

Waste treatment methods : After neutralizing, spray with large amounts of water. Dispose of contents/container in accordance with licensed collector's sorting instructions. Must follow special treatment according to local regulation.

Product/Packaging disposal recommendations : Clean using water and a detergent. Refer to manufacturer/supplier for information on recovery/recycling.

### SECTION 14: Transport Information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1830	UN 1830	Not applicable	UN 1830	UN 1830
<b>14.2. UN proper shipping name</b>				
SULPHURIC ACID	SULPHURIC ACID	Not applicable	SULPHURIC ACID	SULPHURIC ACID
<b>Transport document description</b>				
UN 1830 SULPHURIC ACID, 8, II, (E)	UN 1830 SULPHURIC ACID, 8, II	Not applicable	UN 1830 SULPHURIC ACID, 8, II	UN 1830 SULPHURIC ACID, 8, II
<b>14.3. Transport hazard class(es)</b>				
8	8	Not applicable	8	8
		Not applicable		
<b>14.4. Packing group</b>				
II	II	Not applicable	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Not applicable	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

#### 14.6. Special precautions for user

##### Overland transport

Classification code (ADR) : C1  
Limited quantities (ADR) : 11  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02  
Mixed packing provisions (ADR) : MP15  
Portable tank and bulk container instructions (ADR) : T8  
Portable tank and bulk container special provisions (ADR) : TP2  
Tank code (ADR) : L4BN  
Tank special provisions (ADR) : TU42  
Vehicle for tank carriage : AT  
Transport category (ADR) : 2  
Hazard identification number (Kemler No.) : 80

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Orange plates : 

Tunnel restriction code (ADR) : E  
EAC code : 2P

### Transport by sea

Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
IBC special provisions (IMDG) : B20  
Tank instructions (IMDG) : T8  
Tank special provisions (IMDG) : TP2  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : C  
Stowage and handling (IMDG) : SW15  
Properties and observations (IMDG) : Colourless, oily liquid, mixture over 1.41 up to 1.84 relative density. In the presence of moisture, highly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.

### Air transport

Not applicable

### Inland waterway transport

Classification code (ADN) : C1  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : C1  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02  
Mixed packing provisions (RID) : MP15  
Portable tank and bulk container instructions (RID) : T8  
Portable tank and bulk container special provisions (RID) : TP2  
Tank codes for RID tanks (RID) : L4BN  
Special provisions for RID tanks (RID) : TU42  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE6  
Hazard identification number (RID) : 80

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory Information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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### 15.1.2. National regulations

#### Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
- Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

- SZW-lijst van kankerverwekkende stoffen : Sulphuric acid is listed
- SZW-lijst van mutagene stoffen : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other Information

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.