

# MATERIAL SAFETY DATA SHEET - Drain-Fog

according to regulation (EC) No. 1907 / 2006 (REACH)



## 1. IDENTIFICATION OF SUBSTANCE OR MIXTURE AND SUPPLIER

### 1.1 PRODUCT IDENTIFICATOR

Substance name/Trade name:	Fogging fluid DRAIN-FOG
EC-No.:	None
CAS No.:	none
REACH Registration No.:	Not relevant (mixture)

### 1.2 RELEVANT IDENTIFIED USE OF AGENT OR PREPARATION AND USES NOT RECOMMENDED

Use:	Fog und smoke simulation
Identified use:	None

### 1.3 INFORMATION ON THE SUPPLIER WHICH PROVIDES THE MATERIAL SAFETY DATA SHEET

Supplier:	Ehle-HD Entwicklungs- und Vertriebsgesellschaft mbH Gewerbestraße 2 D-04827 Machern OT Gerichshain, Phone: +49 (0) 34 292 . 654-20 Fax: +49 (0) 34 292 . 654-21 Homepage: www.ehle-hd.com Email: service@ehle-hd.com
Emergency Telephone No:	+49 (0) 6131.19240
Responsible poison information center:	Mainz, Germany

## 2. HAZARD IDENTIFICATION

### 2.1 CLASSIFICATION OF AGENT OR PREPARATION

According to regulation (EC) No. 1272/2008, Annex VII (Substances):	Not classified
According to regulation 67/548/EEC or regulation 1999/45/EG (agents or preparations):	Not classified

### 2.2 LABEL ELEMENTS

According to regulation (EC) No. 1272/2008 (CLP) Labelling: Pictogram / Hazard symbol:	--
Signal word:	--
Hazard-determining components for labelling:	--
Hazards identification / R-phrases:	--
Safety instructions / S-phrases:	--
Other label elements:	--

### 2.3 OTHER RISKS

Physical and chemical risks:	See section 10.
Health hazards:	No special risks known
Environmental hazards:	No special risks known
Other risks:	None
Results of PBT and vPvB assessment:	This preparation contains no substances considered as PBT or vPvB agent.
Other:	Not classified as dangerous good acc. to the EC criteria.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### 3.1 SUBSTANCES

The products are mixtures.

#### 3.2 MIXTURES

Chemical characterization:

Preparation of polyvalent alcohols and water.

Hazardous ingredients:

Products may contain

EC No.	CAS No.	Substance name	wt.-%	Classification according to GHS	Pictograms
203-953-2	112-27-6	Triethylen glycol	25- < 50	-	-

### 4. FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

General instructions:

In normal use, no acute hazard is expected.

If inhaled:

Provide fresh air. Consult a doctor in case of discomfort.

After skin contact:

Flush with plenty of water and soap.

In case of irritated skin:

Seek medical advice.

After eye contact:

Flush with water, get medical attention if discomfort develops.

After ingestion:

Have plenty of water immediately. Get medical attention if effects persist.

Advice to the doctor:

None

#### 4.2 MAJOR ACUTE AND DELAYED SYMPTOMS AND EFFECTS

No information available.

#### 4.3 INFORMATION ON IMMEDIATE MEDICAL ASSISTENCE SPECIAL TREATMENT

none

### 5. FIRE FIGHTING MEASURES

Extinguishing Media:

The product is not combustible. Use water spray, alcohol-resistant foam, powder extinguisher, or carbon dioxide (CO<sub>2</sub>) to extinguish fire in the environment.

Unsuitable extinguishing media:

Water in full jet

Special hazards arising from the agent or preparation:

Hazardous decomposition products: Section 10. Vapours and air may form explosive atmospheres.

In case of fire, dangerous combustion products may develop:

Carbon monoxide, carbon dioxide

Instructions to fire fighting measures:

Cool containers with water spray. Do not inhale explosion and combustion gases and fumes.  
Adjust fire fighting measures to the environment. Avoid extinguishing water to enter sewers or streams. Collect contaminated extinguishing water separately.  
Fight fire from safe distance observing the standard cautions.

Special protective equipment in case of Fire fighting measures:

Use suitable respiratory protection equipment .

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Slipping risk due to spilled product.  
Room ventilation is expected to be satisfactory.

Measures to protect the environment:

The product is no substance harmful to the environment.  
Do not allow to enter sewers /surface waters /groundwater.

Method of cleaning /containment:

Contain with sand, earth or absorbing material and dispose acc. to the local official regulations, dispose acc. to the local legal regulations.

## 7. HANDLING AND STORAGE

Protective measures for safe handling:	Store in impact resistant containers (supplied cases).
Requirements on storage rooms and containers:	Keep in sealed containers. Containers have to be clean, dry, and free of rust.
Information on fire and explosion protections:	No special measures to be taken.
Storage temperature:	Max. environmental temperature 60°C
Storage class:	None
Information on storage with other products:	None
Specific end use:	Fog und smoke simulation

## 8. EXPOSITION LIMITATION AND MONITORING /PERSONAL PROTECTIVE EQUIPMENT

### 8.1 PARAMETER TO BE MONITORED

Additional hints on the design of technical equipment: None  
 Agents with job related exposure limits to be monitored (TRGS 900):

Country	CAS No.	Agent	Note	Identification	SMW (mg/m3)	KZW (mg/m3)
DE	112-27-6	2,2' (Ethylendioxy)diethanol	va, i	AGW	1.000	2.000

**Note:**

i Respirable fraction.  
 KZW Short time value (limit of short time exposure): Limit which shall not be exceeded for a duration of 15 minutes, if not indicated otherwise.  
 SMW Shift median value (limit of long time exposure): Time-weighted median value, measured or calculated for an exposure duration of eight hours  
 va as vapours and aerosols

### 8.2 EXPOSURE LIMIT AND EXPOSURE MONITORING

Personal protective equipment, general measures of safety and hygiene:  
 Respiratory protection: Not required  
 Hand protection: Not required  
 Eye protection: Not required  
 Body protection: Not required  
 Other: Change contaminated clothing. Wash hands before breaks and after work. Do not have snacks nor drinks during work time.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 BASIC PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

Physical state: liquid  
 Colour: clear, colourless  
 Odor: neutral

**Other safety relevant data**

pH value: 5-8  
 Melting point / Freezing point: not established  
 Boiling point: > 100° C  
 Flash point: not applicable  
 Self-igniting temperature: 355° C  
 Fire accelerating properties: none  
 Danger of explosion: none  
 Explosion limits: Lower explosion limit (UEG): No information available  
 / upper explosion limit (OEG): No information available.  
 Density: 1.04 - 1.10 g / cm<sup>3</sup>  
 Water solubility: Miscible in any ratio.  
 Viscosity: low viscosity

## 9.2 OTHER INFORMATION

Temperature class (EU acc. to ATEX):

T2 (maximum admissible surface temperature of the equipment: 300°C)

## 10. STABILITY AND REACTIVITY

Reactivity:

This material is not reactive under normal environmental conditions.

Chemical stability:

The material is stable under normal environmental conditions and under the temperatures and pressures of storage and handling be expected.

Possible hazardous reactions:

In case of intended use, no hazardous reactions occur.

Incompatible material:

Strong oxidizing agents, alkaline substances, acids

Conditions to avoid :

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Hazardous decomposition products:

None

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

The product has not been tested on animals.

Irritation:

No irritant effect.

Corrosion:

Not corrosive.

Sensitization:

Not known to be a sensitizer. Toxicity in case of repeated

exposure:

None

Carcinogenicity:

None

Mutagenicity:

None

Reproductive toxicity

None

General information:

No classification

## 12. ECOLOGICAL INFORMATION

Toxicity data:

No toxic effect known.

Persistence and degradability:

The product has no effect harmful to the environment .

Product is biodegradable acc. to OECD 301E / EEC 84/449 C3.

Bioaccumulation:

No bioaccumulation

Mobility in the ground:

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Results of PBT and vPvB assessment:

The criteria for a classification as PBT and/or vPvB agent were not fulfilled. Other

harmful effects:

None

Potential to affect endocrine systems:

No agent is listed.

## 13. DISPOSAL CONSIDERATIONS

Product:

Dispose acc. to the local regulatory information.

Uncleaned packing:

Dispose according to the local, legal regulatory information .

## 14. TRANSPORT INFORMATION

### 14.1 UN NUMBER

Not subject to the handling regulations

### 14.2 CORRECT UN-SHIPING NAME

ADR / RID:

Not subject to the regulatory information of ADR, RID and ADN

IMDG code:

Not subject to the regulatory information of IMDG

ICAO-IATA/DGR:

Not subject to the regulatory information of ICAO-IATA

### 14.3 TRANSPORT HAZARD CATEGORIES

ADR/RID/IMDG-Code/ICAO-TI/IATA-DGR: Not subject to the regulatory information

### 14.4 PACKING GROUP

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### 14.5 ENVIRONMENTAL HAZARDS

Labelling of substances harmful to the environment.

ADR/RID/IMDG-Code/ICAO-TI/IATA-DGR: No

Marine pollutant: No

### 14.6 SPECIAL PRECAUTIONS FOR USE

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### 14.7 BULK GOODS TRANSPORT ACCORDING TO ANNEX II OF THE MARPOL CONVENTION 73/78 AND ACCORDING TO THE IBC CODE

Delivery only in suitable packaging approved according to traffic regulations.

## 15. LEGAL REGULATIONS

### 15.1 VORSCHRIFTEN ZUR SICHERHEIT, GESUNDHEITS- UND UMWELTSCHUTZ/SPEZIFISCHE RECHTSVORSCHRIFTEN FÜR DEN STOFF ODER DAS GEMISCH

#### EU regulatory Information

List of substances requiring authorization (REACH, annex XIV)

No agent is listed.

Regulation 2011/65/EU on the restricted use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) in (RoHS) - Notes II

No substance is listed

Regulation 166/2006/EC on the creation of an European pollutant Pollutant Release and Transfer Register (PRTR)

No agent

Regulation 200/60/EC on the creation of framework for Community action in the field of water policy (WRR)

No agent is listed

regulation (EC) No. 1005/2009 (substances that deplete the ozone layer)

Not applicable

Regulation (EC) No. 850/2004 (persistent, organic materials)

Not applicable

Regulation (EC) No. 689/2008 (export and import of hazardous chemicals)

Not applicable Regulation

(EC) No. 648/2004 (Regulation on detergents)

Not applicable

Approvals according to title VII of the regulation (EC) No. 1007/2006

No

Restrictions according to title VIII of the regulation (EC) No. 1907/2006

No

National regulations

German water pollution class Class 1 see VwVwS, annex 4

Reference to specifications related to hazardous substances (TRGS)

Not applicable

Solvents regulation (31. BImSchV)

VOC content: 0.0%

### 15.2 CHEMICAL SAFETY ASSESSMENT

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## 16. OTHER INFORMATION

Author of data sheet:

Top management

Exposure scenario:

Fogging fluid for professional use to create a short-term, artificial fog and show effect in show business, theatres, and film production.

Use a fogging fluid concentration between 25 and 80 mg per m<sup>3</sup> air. Consider visibility and desired effect when dosing. Ensure that fog density is dosed such that exits and emergency exits of closed rooms remain always visible. The same applies to the illumination of exit routes, exit markings, stairs, manholes, edges etc. Maintain a visibility of 25 m (acc. to VStättV regulation max. distance to the next exit).

To avoid panic, fogged rooms shall never be locked.

Use the product in a professional manner in the condition delivered. Keep away from children at a safe place.

■ All given data are based upon our actual knowledge and experience. This data sheet is prepared to describe products safety requirements only. The specifications do not warrant product properties and are no quality specifications.