

# Zuff Fire Suppression Device

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758. Issue date: 21/10/2025 Revision date: 21/10/2026 Version: 1.0

SECTION 1: Identification of the substance / mixture and of the company/ undertaking	
1.1: Product form / name	
Product form:	Fire suppression device
Product name:	Zuff
1.2: Relevant identified use of the substance / mixture and use advice against	
1.2.1 Relevant identified uses	
Main use category	Retail and commercial
Use of substance/mixture	Fire protection
1.2.2 Use advised against	
No additional information available:	
1.3: Details of the supplier of the safety data sheet	
Manufacturer Zuff Fire GmbH Stollestr 22 01159 Dresden Germany	
1.4: Emergency telephone number	
Emergency number	
SECTION 2: Hazards identification	
2.1: Classification of the substance or mixture	
Adverse physicochemical, human health and environmental effects	
No additional information available:	
2.2: Label elements	
Labeling according Regulation (EC) No. 1272/2008 (CLP) Extra labeling	
Signal work (CLP)	Warning
Hazard statements (CLP)	P102 – Keep out of reach of children P261 – Avoid breathing vapors P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing P410+P412 – Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F
Extra phrases	1.5915 % by mass of the contents are flammable
Unknown acute toxicity (CLP) - SDS	15.43% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 27.66% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

# Zuff Fire Suppression Device

## Safety Data Sheet

### 2.3: Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## 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)
Carbonic acid, monoammonium salt	(CAS-No.) 1066-33-7 (EC-No.) 213-911-5	10-20	Acute Tox. 4 (Oral), H302 (ATE=1576 mg/kg bodyweight)

## SECTION 4: First aid measures

### 4.1: Description of fire aid measures

First-aid measures after inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if unwell.
First-aid measures after skin contact:	If skin irritation occurs: Wash skin with plenty of water. Get medical advice / attention if irritation persists.
First-aid measures after eye contact:	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Get medical advice / attention if irritation persists.
First-aid measures after ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice / attention if you feel unwell.

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

Symptoms/effects after inhalation:	May cause irritation to the respiratory tract.
Symptoms/effects after skin contact:	May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact:	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately.

## SECTION 5: Firefighting measures

### 5.1: Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Do not use water jet.

# Zuff Fire Suppression Device

## Safety Data Sheet

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

Fire hazard	Product is an extinguishing media. It does not burn or support combustion. Products of combustion may include, and are not limited to: oxides of carbon.
Explosion hazard	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

### 5.3: Advice for firefighters

Firefighting instructions	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Move containers away from the fire area if this can be done without risk.
Protection during firefighting	Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

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

General measures	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Isolate from fire, if possible, without unnecessary risk.
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**6.1.1. For non-emergency personnel** No additional information available

**6.1.2 For emergency responders** No additional information available

### 6.2: Environmental precautions

Prevent entry to sewers and public waters

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

For containment	Stop leak if safe to do so. Remove all sources of ignition. Absorb and /or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Methods for cleaning up	Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

### 6.4: Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1: Precautions for safe handling

Additional hazards when processed	Hazardous waste due to potential risk of explosion.
Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. When using do not eat, drink or smoke. Handle and open container with care.
Hygiene measures	Wash contaminated clothing before reuse. Always wash hands after handling the product

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

Storage conditions	Keep out of the reach of children. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a dry, cool and well-ventilated place
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# Zuff Fire Suppression Device

## Safety Data Sheet

### 7.3: Specific end use(s)

Fire protection

## SECTION 8: Exposure controls/personal protection

### 8.1: Control parameters

Monitoring methods

Consult the relevant monitoring standards for the region.

### 8.2: Exposure controls

**Appropriate engineering controls:** Ensure good ventilation of the work station.

**Hand protection:** Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

**Eye protection:** Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

**Skin and body protection:** Wear suitable protective clothing

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Thermal hazard protection:** Use personal protective equipment as required.

**Environmental exposure controls:** Avoid release to the environment.

**Other information:** Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

Physical state	Liquid
Colour	No data available
Odour	No data available
Odour threshold	No data available
pH	No data available
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	Minus 5 °C
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not flammable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

# Zuff Fire Suppression Device

## Safety Data Sheet

9.2: Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1: Reactivity	
No dangerous reactions known under normal conditions of use.	
10.2: Chemical stability	
Stable under normal conditions. Do not drill or burn even after use.	
10.3: Possibility of hazardous reactions	
No dangerous reactions known under normal conditions for use.	
10.4: Conditions to avoid	
Heat	
10.5: Incompatible materials	
None known	
10.6: Hazardous decomposition products	
May include, and are not limited to: oxides of carbon.	
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.
Carbonic acid, monoammonium salt (1066-33-7)	
LD50 oral rat	1576 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OE CD Guideline 434 (Acute Dermal Toxicity - Fixed Dose Procedure)
LD50 dermal rabbit	> 5000 mg/kg
Unknown acute toxicity (CLP) - SDS	15.43% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 27.66% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))
Skin corrosion/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Carcinogenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
STOT-single exposure	Not classified.
Additional information	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Aspiration hazard	Not classified.
Additional information	Based on available data, the classification criteria are not met.

# Zuff Fire Suppression Device

## Safety Data Sheet

### SECTION 12: Ecological information

#### 12.1: Toxicity

Ecology - general	May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short- term (acute)	Not classified
Hazardous to the aquatic environment, long- term (chronic)	Not classified

#### Carbonic acid, monoammonium salt (1066-33-7)

LC50 - Fish [1]	0.16 – 1.1 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 - Fish [2]	0.615 – 0.712 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	202 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	145.6 mg/l Test organisms (species): other

#### 12.2: Persistence and degradability

Persistence and degradability	Not established
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#### 12.3: Bioaccumulative potential

Bioaccumulative potential	Not established
Carbonic acid, monoammonium salt (1066-33-7)	
Partition coefficient n-octanol/water	-2.4 (at 25 °C)
Diethylene glycol monobutyl ether (1 12-34-5)	
BCF - Fish [1]	(no bioconcentration expected)

#### 12.4: Mobility in soil

No additional information available

#### 12.5: Results of PBT and vPVB assessment

No additional information available

#### 12.6: Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1: Waste treatment methods

Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. The generation of waste should be avoided or minimized wherever possible.
Additional information	No additional information

### SECTION 14: Transport information

#### 14.1: UN number

UN-No. (ADR)	Not applicable
UN-No. (IMDG)	Not applicable
UN-No. (IATA)	Not applicable

# Zuff Fire Suppression Device

## Safety Data Sheet

14.2: HS customs tariff code

8424.10.00-00

### SECTION 15: Regulatory information

15.1: Safety, health and environmental regulations/legislation specific for the substance

EU regulations

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance. 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

Contains no REACH Annex XIV substances

National regulations

Not determined

15.2: Chemical safety assessment

No chemical safety assessment has been carried out

### Disclaimer

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