

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

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

#### 1.1. Product identifier

Product form : Mixture

Product name : Zenova Wild Fire Barrier Fluid

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Industrial use

Use of the substance/mixture : Flame retardants and fire preventing agents

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Zenova LTD

101 Kings Road,

Brentwood, Essex,

**CM14 4DR** 

T+44 (0) 1277 288314

technical@zenovagroup.com - www.zenovagroup.com

### 1.4. Emergency telephone number

Emergency number : +02071932135

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

EUH210

Full text of hazard classes, H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra

EUH-statements : EUH210 - Safety data sheet available on request.

Unknown acute toxicity (CLP) - SDS : 10.38% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation

(Vapours))

## 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

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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	1-3	Acute Tox. 4 (Oral), H302 (ATE=1576 mg/kg bodyweight)

Full text of H- and EUH-statements: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first 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 advice/attention if you feel unwell.

First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical 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

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting without medical advice. 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 (show the label where possible).

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

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

Unsuitable extinguishing media : None known.

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

Fire hazard : Product is an extinguishing media. It does not burn or support combustion.

#### 5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting 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 prote

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

## **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.

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

For containment : 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.

#### 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

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not

swallow. Handle and open container with care. When using do not eat, drink or smoke.

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. Keep container tightly closed. Store in a dry, cool and well-

ventilated place.

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

Wildfire barrier fluid.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Additional information : Not applicable

#### 8.2. Exposure controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

## Hand protection:

Wear suitable gloves

## Eye protection:

Safety glasses or goggles are recommended when using product.

#### 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

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Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available : No data available Boiling point 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

## 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.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None known.

## 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

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LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 434 (Acute Dermal Toxicity - Fixed Dose Procedure)
LD50 dermal rabbit	> 5000 mg/kg
Unknown acute toxicity (CLP) - SDS	: 10.38% 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 sensitisation	: 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.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

# SECTION 12: Ecological information

## 12.1. Toxicity

Ecology - general : his product is not expected to produce significant ecotoxicity upon exposure	to aquatic
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organisms and aquatic systems.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified.

Hazardous to the aquatic environment, long-

: Not classified.

term (chronic)

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

Zenova Wild Fire Barrier Fluid	
Persistence and degradability	Not established.

## 12.3. Bioaccumulative potential

Zenova Wild Fire Barrier Fluid	
Bioaccumulative potential	Not established.
Carbonic acid, monoammonium salt (1066-33-7)	
Partition coefficient n-octanol/water	-2.4 (at 25 °C)

#### 12.4. Mobility in soil

No additional information available

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### Results of PBT and vPvB assessment

## Zenova Wild Fire Barrier Fluid

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## Other adverse effects

Additional information : No other effects known

#### **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.

## **SECTION 14: Transport information**

In accordance with ADR

#### 14.1. UN number

UN-No. (ADR) : Not regulated

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated

#### 14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

#### 14.4. Packing group

: Not regulated Packing group (ADR)

## **Environmental hazards**

Dangerous for the environment : No

Other information : No supplementary information available.

#### Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

#### - Overland transport

Not regulated

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

No additional information available

## **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

#### 15.1.1. 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

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#### 15.1.2. National regulations

#### **United Kingdom**

British National Regulations : Not determined.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Indication of changes:

None.

#### Abbreviations and acronyms:

°C – Degrees Celsius

°F – Degrees Fahrenheit

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road.

ACGIH - American Conference of Governmental Industrial Hygienists

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

BEI – Biological Exposure Index

CAS - Chemical Abstracts Service

CLP – Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.

CMR – Carcinogen, Mutagen, Reproductive toxin

cP - centipoise (unit of dynamic viscosity)

cSt - centistokes (unit of kinematic viscosity)

DNEL - Derived No-effect Level

DMEL - Derived Minimal Effect Level

EC50 - Half maximal effective concentration

ECHA – European Chemicals Agency

EC-No. – European Community number

EU - European Union

GHS – Globally Harmonized System of Classification and Labelling of Chemicals

h-Hours

IATA – International Air Transport Association

 ${\sf IC50-Inhibition\ concentration}$ 

IDLH – Immediately Dangerous to Life or Health

IMDG - International Maritime Dangerous Goods

IOELV – Indicative Occupational Exposure Limit Value

KIFS – Swedish Chemicals Agency's (Keml's) Code of Statutes

kPa – kilopascal

Koc – Adsorption Coefficient

Kow – Octanol-Water Partition Coefficient

LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect level

mg/l – Milligram per liter

mg/kg – Milligram per kilogram

mg/m3 – Milligram per cubic meter

Min - Minutes

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

NO(A)EL - No Observed (Adverse) Effect Level

N.O.S. - Not Otherwise Specified

OEL – Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic

PCN - Poison Centre Notification

PNEC - Predicted No Effect Concentration

ppm – Parts per million

PVC - Polyvinyl chloride

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail

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## Safety Data Sheet

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SDS – Safety Data Sheet

STEL – Short Term Exposure Limit STOT – Specific Target Organ Toxicity

SVHC - Substance of Very High Concern (CMR, vPvB, PBT)

TDI – Tolerable Daily Intake TLV – Threshold Limit Value TWA – Time Weighted Average UFI – Unique Formulation Identifier

UN – United Nations

vPvB - Very Persistent and Very Bioaccumulative

WEL - Workplace Exposure Limit

WGK – Wassergefahrdungklasse – German water quality classification

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
EUH210	Safety data sheet available on request.	
H302	Harmful if swallowed.	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
EUH210	Calculation method	

## SDS UK\_NEXREG\_NEW2021

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