

# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

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

#### 1.1. Product identifier

**Trade name:** Fire Protection

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

**Recommended uses:** Impregnation agents.

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

##### Supplier

**Company:** Guardian Protection Products A/S  
**Address:** Knudevejen 22  
**Zip code:** 6600  
**City:** Vejen  
**Country:** DENMARK  
**Email:** guardian@guardian.dk  
**Phone:** +45 75471767  
**Fax:** +45 75471787

#### 1.4. Emergency Telephone Number

+45 75 47 17 67 (Guardian Protection Products A/S)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**CLP-classification:** Aerosol 3;H229

**Most serious harmful effects:** Pressurised container: May burst if heated. May cause slight irritation to the skin and eyes. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

#### 2.2. Label elements

**Signal word:** Warning

##### Hazard Statements

H229 Pressurised container: May burst if heated.

##### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

#### 2.3. Other hazards

The product does not contain any PBT or vPvB substances.  
Endocrine disrupting properties: None known.

# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
Ethanol	64-17-5 200-578-6 01-2120063206-63	5 - 10 %		Flam. Liq. 2;H225 Eye Irrit. 2;H319  C ≥ 50%: Eye Irrit. 2;H319
Carbon dioxide	124-38-9 204-696-9	5 - 10 %	12	Press. Gas liq. gas;H280

Please see section 16 for the full text of H- / EUH-phrases.

12 = The substance is included in the EU list of limit values for occupational exposure.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation:</b>	Seek fresh air. Seek medical advice in case of persistent discomfort.
<b>Ingestion:</b>	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.
<b>Skin contact:</b>	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
<b>Eye contact:</b>	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
<b>Burns:</b>	Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
<b>General:</b>	When obtaining medical advice, show the safety data sheet or label.

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

May cause slight irritation to the skin and eyes. Inhalation of spray mist may cause irritation to the upper airways. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

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

Treat symptoms. No special immediate treatment required.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media:</b>	Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.
<b>Unsuitable extinguishing media:</b>	Do not use water stream, as it may spread the fire.

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

CAUTION! Aerosol containers may explode. Heating will cause a rise in pressure in packaging with a risk of bursting. Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

### 5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel:** Stay upwind/keep distance from source. Provide adequate ventilation. Smoking and naked flames prohibited.

**For emergency responders:** In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

### 6.2. Environmental precautions

Avoid unnecessary release to the environment.

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

Wipe up drops and splashes with a cloth.

### 6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking and naked flames prohibited. Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

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

To be stored safely out of reach of children and not together with food, feed, medicine and the like. Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not store with the following: Strong acids/ Strong alkalis/ Strong oxidisers/ Strong reducing agents. Store frost-free.

### 7.3. Specific end use(s)

None.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit

Substance name	Time period	ppm	mg/m <sup>3</sup>	Fiber/cm <sup>3</sup>	Remarks	Notation
Carbon dioxide	8h	5000	9000			

#### Measuring methods:

Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

#### Legal basis:

Commission Directive 2000/39/EC (Occupational Exposure Limits) as subsequently amended. Last amended by Commission Directive 2019/1831/EU. Directive 2004/37/EC (Exposure to carcinogens or mutagens at work) as subsequently amended. Last amended by Directive 2024/869/EU. Directive 2009/148/EC (Exposure to asbestos at work) as subsequently amended. Last amended by Directive 2023/2668/EU.

# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

### PNEC

Ethanol, cas-no 64-17-5				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,96 mg/l			
PNEC aqua (marine water)	0,79 mg/l			
PNEC aqua (intermittent releases)	2,75 mg/l			
PNEC soil	0,63 mg/kg dw			
PNEC sediment (freshwater)	3,6 mg/kg			
PNEC STP (wastewater-treatment facilities)	580 mg/l			
PNEC sediment (marine water)	2,9 mg/kg dw			

### DNEL - workers

Ethanol, cas-no 64-17-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	343 mg/kg bw/day				
Inhalation DNEL (acute/short-term exposure - local effects)	1900 mg/m <sup>3</sup>				
Inhalation DNEL (long-term exposure - systemic effects)	950 mg/m <sup>3</sup>				

### DNEL - general population

Ethanol, cas-no 64-17-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	206 mg/kg bw/day				
Inhalation DNEL (acute/short-term exposure - local effects)	950 mg/m <sup>3</sup>				
Inhalation DNEL (long-term exposure - systemic effects)	114 mg/m <sup>3</sup>				
Oral DNEL (long-term exposure - systemic effects)	87 mg/kg bw/day				

### 8.2. Exposure controls

#### Appropriate engineering controls:

Use the product under well-ventilated conditions. Wear the personal protective equipment specified below.

#### Personal protective equipment, eye/face protection:

Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 16321.

# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

**Personal protective equipment, hand protection:** In the event of direct skin contact, wear protective gloves: Type of material: Nitrile rubber. Breakthrough time has not been determined for the product. Change gloves often. Gloves must conform to EN 374. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

**Personal protective equipment, respiratory protection:** Light use (small volume, short term contact (below 10 min.)): Not required. Medium use (medium volume, medium contact (below 2 hours)): Filter type: A/P. Respiratory protection must conform to one of the following standards: EN 136/140/145.

**Environmental exposure controls:** Ensure compliance with local regulations for emissions.

### SECTION 9: Physical and chemical properties

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

Parameter	Value/unit
State	Aerosol
Colour	Clear
Odour	Weak
Solubility	Soluble in the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Boiling point or initial boiling point and boiling range	No data	
Flammability	No data	
Flammability limits	No data	
Lower and upper explosion limit	No data	
Flash Point	100 °C	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water (log value)	No data	
Vapour pressure	No data	
Density	1 g/cm <sup>3</sup>	
relative density	No data	
Relative vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

#### 9.2. Other information

Parameter	Value/unit	Remarks
VOC (Volatile organic compounds):	5-10%	

**Other Information:** None.

### SECTION 10: Stability and reactivity

# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

### 10.1. Reactivity

Reacts with the following: Strong alkalis/ Strong oxidisers/ Strong reducing agents/ Strong acids.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Avoid heating and contact with ignition sources. Avoid direct sunlight. Avoid temperatures >50°C.

### 10.5. Incompatible materials

Strong alkalis/ Strong oxidisers/ Strong reducing agents/ Strong acids.

### 10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity - oral

##### Ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		10470 mg/kg			

Spray mist in mouth may irritate mucous membranes in mouth and throat. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

#### Acute toxicity - dermal

##### Ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 17100 mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

#### Acute toxicity - inhalation

##### Ethanol, cas-no 64-17-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50		124.7 mg/l			

##### Carbon dioxide, cas-no 124-38-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	0,5h	470000 ppm			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

#### Skin corrosion/irritation:

May cause slight irritation. The product does not have to be classified. Test data are not available.

#### Serious eye damage/eye irritation:

May cause eye irritation. The product does not have to be classified. Test data are not available.

# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

<b>Respiratory sensitisation or skin sensitisation:</b>	The product does not have to be classified. Test data are not available.
<b>Germ cell mutagenicity:</b>	The product does not have to be classified. Test data are not available.
<b>Carcinogenic properties:</b>	The product does not have to be classified. Test data are not available.
<b>Reproductive toxicity:</b>	The product does not have to be classified. Test data are not available.
<b>Single STOT exposure:</b>	Inhalation of vapours/spray mist may cause irritation to the upper airways. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. The product does not have to be classified. Test data are not available.
<b>Repeated STOT exposure:</b>	The product does not have to be classified. Test data are not available.
<b>Aspiration hazard:</b>	The product does not have to be classified. Test data are not available.

### 11.2. Information on other hazards

<b>Endocrine disrupting properties:</b>	None known.
<b>Other toxicological effects:</b>	None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish			96hLC50	1100 mg/l			
Crustacea			48hLC50	9268 - 14221 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

### 12.2. Persistence and degradability

#### Ethanol, cas-no 64-17-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Readily biodegradable.		

Expected to be biodegradable.

### 12.3. Bioaccumulative potential

#### Carbon dioxide, cas-no 124-38-9

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	0.83	No bioaccumulation expected.		

No bioaccumulation expected.

### 12.4. Mobility in soil

Test data are not available.

### 12.5. Results of PBT and vPvB assessment

# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

The product does not contain any PBT or vPvB substances.

### 12.6. Endocrine disrupting properties

None known.

### 12.7. Other adverse effects

None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Avoid unnecessary release to the environment.

Do not dispose of aerosol sprays in refuse collection, even when empty. The sprays must be sent to the municipal chemical waste collection facility.

Aerosol sprays:

16 05 04\* gases in pressure containers (including halons) containing hazardous substances

Absorbent/cloth contaminated with the product:

15 02 02\* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es): 2.2

Hazard label(s): 2.2

Hazard identification number:

14.4. Packing group:

14.5. Environmental hazards:

The product should not be labelled as an environmental hazard (symbol: fish and tree).

Tunnel restriction code: E

### Inland water ways transport (ADN)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es): 2.2

Hazard label(s): 2.2

Transport in tank vessels: #Not translated#

14.4. Packing group:

14.5. Environmental hazards:

The product should not be labelled as an environmental hazard (symbol: fish and tree).

### Sea transport (IMDG)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es): 2.2

Hazard label(s): 2.2

14.4. Packing group:

14.5. Environmental hazards:

Environmental Hazardous Substance Name(s):

The product is not a Marine Pollutant (MP).



# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

**EmS:** F-D, S-U **IMDG Code segregation group:** - None -

### Air transport (ICAO-TI / IATA-DGR)

<b>14.1. UN number or ID number:</b>	1950	<b>14.4. Packing group:</b>	
<b>14.2. UN proper shipping name:</b>	AEROSOLS, NON-FLAMMABLE	<b>14.5. Environmental hazards:</b>	The product should not be labelled as an environmental hazard (symbol: fish and tree).
<b>14.3. Transport hazard class(es):</b>	2.2		
<b>Hazard label(s):</b>	2.2		
<b>14.6. Special precautions for user</b>			

None.

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

## SECTION 15: Regulatory information

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

**Special Provisions:** None known.

### 15.2. Chemical Safety Assessment

**Other Information:** Chemical safety assessment has not been performed.

## SECTION 16: Other information

### Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	08/03/2025	JST	

**Abbreviations:**

- DNEL: Derived No Effect Level
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity
- UFI: Unique formula identifier.
- vPvB: Very Persistent and Very Bioaccumulative

**Other Information:** This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

**Training advice:** A thorough knowledge of this safety data sheet should be a prerequisite condition.

**Classification method:** Calculation based on the hazards of the known components.

# Safety Data Sheet

## Fire Protection

Issued: 08/03/2025  
Version: 1.0.0

### Hazard statements

H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure, may explode if heated.
H319	Causes serious eye irritation.

### SDS is prepared by

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