

## Safety data sheet

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### **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: Guardian Protection Products A/S  
Knudevejen 22  
6600 Vejen  
Denmark  
Tel: +45 75471767  
Fax: +45 75471787  
Email: guardian@guardian.dk

#### **1.4. Emergency telephone number**

0870 600 6266 (UK only) Only available to health professionals.

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### **SECTION 2: Hazards identification**

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

CLP-classification (Regulation (EC) No 1272/2008): Aerosol 3;H229

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

Most serious harmful effects: Pressurised container: May burst if heated.  
May cause slight irritation to the skin and eyes.

#### **2.2. Label elements**

Signal word: Warning  
H-phrases: Pressurised container: May burst if heated.(H229)  
P-phrases: Keep out of reach of children.(P102)  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.(P210)

Do not pierce or burn, even after use.(P251)  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.(P410/412)

Supplemental information: 12 % by mass of the contents are flammable.

### 2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Registration number	CAS/EC Number	Substance	CLP-classification (Regulation (EC) No 1272/2008)	w/w% Note
.	124-38-9-liq	Carbon dioxide	Press. Gas liq. gas;H280	5-15 12
.	204-696-9	.	.	.
.	67-63-0	propan-2-ol	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	< 10 .
.	200-661-7	.	.	.
.	64-17-5-b	ethanol	Flam. Liq. 2;H225	0-75 .
.	200-578-6	.	.	.

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

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

Other information: Any letters after the CAS number refer to individual data sets.

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation:	Seek fresh air. Seek medical advice in case of persistent discomfort.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.
Skin:	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eyes:	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
Burns:	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.
Other information:	When obtaining medical advice, show the safety data sheet or label.

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

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.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.
Unsuitable extinguishing media	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. The product decomposes when combusted and the following toxic gases can be formed: Nitrous gases/ Carbon monoxide and carbon dioxide.

### 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.

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## 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.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking and naked flames prohibited. The product should be used under well-ventilated conditions and preferably under process ventilation. Running water and eye wash equipment must 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

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C.

### 7.3. Specific end use(s)

None.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limits:

Ingredient:	Exposure limit	Comments
Carbon dioxide	5000 (8h), 15000 (15m) ppm	
.	9150 (8h), 27400 (15m) mg/m3	
Propane-1,2-diol	150 / - (8h), - / - (15m) ppm	
.	474 / 10 (8h), - / - (15m) mg/m3	
ethanol	1000 (8h), - (15m) ppm	
.	1920 (8h), - (15m) mg/m3	
propan-2-ol	400 (8h), 500 (15m) ppm	
.	999 (8h), 1250 (15m) mg/m3	

Legal basis: EH40/2005 Workplace exposure limits. Last amended December 2011.

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

### 8.2. Exposure controls

Appropriate engineering controls: 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 166.

Personal protective equipment, skin protection: Not required.

Personal protective equipment, respiratory protection: Not required.

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

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## **SECTION 9: Physical and chemical properties**

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

State:	Aerosol
Colour:	Clear
Odour:	Weak
Odour threshold:	No data
pH (solution for use):	No data
pH (concentrate):	No data
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	> 100 °C
Evaporation rate:	No data
Flammability (solid, gas):	No data
Upper/lower flammability limits:	No data
Upper/lower explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	No data
Solubility:	Soluble in the following: Water.
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data
Oxidising properties:	No data

### **9.2. Other information**

None.

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

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

### **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**

Do not expose to heat (e.g. sunlight). Avoid temperatures >50°C.

### **10.5. Incompatible materials**

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

### **10.6. Hazardous decomposition products**

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ Nitrous gases.

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity - oral: Spray mist in mouth may irritate mucous membranes in mouth and throat. The product does not have to be classified. Test data are not available.

Acute toxicity - dermal: The product does not have to be classified. Test data are not available.

Acute toxicity - inhalation: The product does not have to be classified. Test data are not available.

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:	Temporary irritation. The product does not have to be classified. Test data are not available.
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	The product does not have to be classified. Test data are not available.
Reproductive toxicity:	The product does not have to be classified. Test data are not available.
Single STOT exposure:	The product releases organic solvent vapours. At high concentrations, the vapours may cause headache, dizziness, intoxication and possible unconsciousness. The product does not have to be classified. Test data are not available.
Repeated STOT exposure:	The product does not have to be classified. Test data are not available.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	None known.

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## SECTION 12: Ecological information

### 12.1. Toxicity

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

Acute toxicity:

64-17-5-b: Fish: Name of species not specified: 96hLC50 = 1300 mg/l

### 12.2. Persistence and degradability

Test data are not available.

### 12.3. Bioaccumulative potential

No bioaccumulation expected. Test data are not available.

### 12.4. Mobility in soil

Test data are not available.

### 12.5. Results of PBT and vPvB assessment

No assessment has been made.

### 12.6. Other adverse effects

None known.

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## 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 with the specifications set out below.

Aerosol sprays:

EWC code: 16 05 04 Gases in pressure containers containing dangerous substances.

Wiping cloths with organic solvents:

EWC code: 15 02 02 Absorbents, filter materials (including oil filters not otherwise specified),

**SECTION 14: Transport information**

**ADR/RID**

**14.1. UN number** 1950

**14.2. UN proper shipping name** AEROSOLS

**14.3. Transport hazard class(es)** 2.2

**14.4. Packing group** -

Hazard identification number -

Tunnel restriction code: E

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

**ADN**

14.1. UN number 1950

14.2. UN proper shipping name AEROSOLS

14.3. Transport hazard class(es) 2.2

14.4. Packing group -

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

Transport in tank vessels: -

**IMDG**

14.1. UN number 1950

14.2. UN proper shipping name AEROSOLS

14.3. Transport hazard class(es) 2.2

14.4. Packing group -

14.5. Environmental hazards The product is not a Marine Pollutant (MP).

IMDG Code segregation group: -

**ICAO/IATA**

14.1. UN number 1950

14.2. UN proper shipping name AEROSOLS, NON-FLAMMABLE

14.3. Transport hazard class(es) 2.2

14.4. Packing group -

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

**14.6. Special precautions for user**

None.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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**SECTION 15: Regulatory information**

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

Special provisions: None.

**15.2. Chemical safety assessment**

Chemical safety assessment has not been performed.

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**SECTION 16: Other information**

Changes have been made in the following sections: 1-16

Abbreviation explanations:

PBT: Persistent, Bioaccumulative and Toxic  
vPvB: Very Persistent and Very Bioaccumulative  
STOT: Specific Target Organ Toxicity

Classification method:

Calculation based on the hazards of the known components.

H-phrases:

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.  
H336 May cause drowsiness or dizziness.

Training:

A thorough knowledge of this safety data sheet should be a prerequisite condition.

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.

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LBN/ Bureau Veritas HSE Denmark A/S Birkemosevej 7, DK-6000 Kolding T: +45 75508811, F: +45 75508810, E-mail: infohse@dk.bureauveritas.com, Web: www.hse.bureauveritas.dk (Made in Toxido®) UK