



## Hahnemühle FineArt GmbH

### 1. Identification of the substance/preparation and of the company/undertaking

#### 1.1 Product information

Trade name Hahnemühle Protective Spray

#### 1.2 Company

Hahnemühle FineArt GmbH

Sales and Marketing

Hahnestr. 5

D-37586 Dassel

Telephone: int+49 (0) 5561-791-369

Telefax: int+49 (0) 5561-791-377

E-Mail: dfa@hahnemuehle.de

#### 1.3 Emergency Telephone

Telephone exchange for Emergency and Intoxication: **+49 (0) 551/19240 or +49 (0) 551/383180** or another centre for intoxication.

### 2. Hazards identification

Extremely Flammable. Vapour harmful. The principal safety and health hazards when using the product are due to inhalation of isopropanol vapours. There is also a risk of ignition of the spray should it pass through or on an ignition source. Inhalation may occur while spraying the product or during the drying process. If the product is used with adequate ventilation, risk of excessive inhalation is eliminated.

### 3. Composition/Information on ingredients

#### 3.1 Chemical nature

The exact chemical composition of Hahnemühle Protective Spray is a trade secret.

Hazardous Ingredients	% Wt.	CAS No.	EEC No.	Symbol	R	EXPOSURE LIMITS			
						Long Term (8Hr)		Short Term (15 mins)	
						ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Isopropyl Alcohol	40-60	67-63-0	200-661-7	F	11, 36, 67	400	999	500	1250
Dimethyl Ether	40-60	115-10-6	204-065-8	F+	12	400	766	500	958
n-Butyl Acetate	1-3	123-86-4	204-658-1	-	10, 66, 67	150	742	200	966

R10 = Flammable; R11 = Highly Flammable; R12 =Extremely Flammable;

R36 = Irritating to the eyes; R66 = Repeated exposure may cause skin dryness or cracking;

R67 = vapours may cause drowsiness and dizziness.

Remaining ingredients not considered hazardous under CHIP regulations

### 4. First aid measures

#### 4.1 Skin contact

Wash with soap and water. Get medical attention if irritation or rash develops. Remove and launder contaminated clothing before reuse.

#### 4.2 Inhalation

Remove to fresh air. If not breathing, apply artificial respiration. Get immediate medical attention.

#### 4.3 Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

#### 4.4 **Ingestion**

If fully conscious, drink plenty of water. Induce vomiting. Get medical attention.

#### 4.4 **Advice to physician**

Treat symptoms.

### 5. **Fire-fighting measures**

- 5.1 Extinguishing Media: Dry chemical, carbon dioxide, foam for alcohols, water fog/ spray.  
Fire/Explosion Hazards: Containers are under pressure. Exposure to high heat may result in explosion.  
Fire Fighting Measures: Wear a self-contained breathing apparatus and full protective gear. Cool cans with water  
NFPA hazard Codes: Health/Flammability/Reactivity 2 4 1

### 6. **Accidental release measures**

- 6.1 Evacuate area. Provide adequate ventilation. Contain spill to a small area. Flush away from ignition sources with water. Pick up with absorbent material and transfer to suitable container for disposal. Keep out of sewers, streams and waterways.

### 7. **Handling and storage**

- 7.1 Do not puncture or crush container, even when empty. Keep away from open flames and sparks. Store above 0°C (32°F) and below 49°C (120°F). Do not store in direct sunlight.

### 8. **Exposure controls / personal protection**

#### 8.1 **Respiratory Protection**

Good general ventilation should be sufficient to control airborne levels. Use a fume hood if PEL/TLV may be exceeded.

#### 8.2 **Engineering Controls**

It is recommended that ventilation be used if sprayed in order to minimize employee exposure. Use local exhaust to control vapors/mists.

#### 8.3 **Protective Gloves**

Not normally required. Wear chemical resistant gloves, if skin contact may occur.

#### 8.4 **Eye Protection**

Wear safety glasses or goggles.

### 9. **Physical and chemical properties**

- 9.1 Physical State Clear low viscosity liquid with an alcohol odour  
Boiling Point 82.5°C (181°F) (Isopropanol)  
Flash Point 12°C (53°F) open cup (Product only)  
Autoignition Temp. not determined  
Vapour Pressure not determined  
Solubility in water Miscible  
Freezing Point Less than 0°C  
Specific Gravity 0.78 kg/l  
pH Not applicable  
Vapour Density >1 (Air = 1)  
Evaporation Rate <1 (Ether#1)  
% Volatile (by volume) 90  
Flammable limits Lower: 2.0 Upper: 12.7 (Isopropanol)

## 10. Stability and reactivity

10.1 **Stable:** Yes.

**Incompatibility: Strong Oxidisers, strong inorganic acids.**

**Hazardous Polymerization: Will not occur.**

**Hazardous Decomposition Products:** May include oxides of carbon, nitrogen and other toxic fumes.

## 11. Toxicological information

### 11.1 Primary Route of Exposure

Inhalation, skin and eye contact

### 11.2 Acute Effects:

Eyes Eye contact may cause irritation.

Inhalation Inhalation in excess of PEL/TLV may result in dizziness and headache and in extreme cases, loss of consciousness

Skin Repeated or prolonged skin contact may cause skin irritation and defat the skin.

Chronic Effects None expected from available data.

Cancer Information This product contains no ingredient that is listed on the IARC, NTP, or OSHA carcinogen lists.

## 12. Ecological information

### 12.1 Environmental

No data available.

## 13. Disposal considerations

### 13.1 Product Disposal

Do not incinerate. Bury in licensed facility. Follow Federal, State, and local regulations.

## 14. Transport information

14.1 **TDG** Aerosol, 2.1, UN1950

**IMDG** Aerosols, Class 2, UN1950, ERG No.12

**IATA/CAO** Aerosols, Flammable, N.O.S., UN 1950

**ARD/RID** Aerosol Dispensers, 2, 5°F ARD.UN1950

**U.S. DOT** Consumer Commodity ORM-D for package weights more than 30 Kg. -  
Aerosols, Flammable, N.O.S., UN

## 15. Regulatory information

### 15.1 European Classification

F+, Extremely flammable; R-Phrase - Extremely flammable; S-Phrase - keep away from ignition sources, no smoking

### 15.2 Canadian Classification

B-2: Flammable aerosol; R-Phrase - Flammable; S-Phrases - keep away from sources of ignition, no smoking; Do not breathe spray; Use only in well ventilated areas

## 16. Other information

### 16.1 Further information

HMIS Rating :

Health : 2

Flammability : 4

Reactivity : 1

**CERCLA/SUPERFUND,40 CFR 302.4:** Dimethyl Ether is reportable, 100 lbs (45.4 kg.).

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** The ingredients of this product are all on the TSCA inventory list.

**SARA TITLE III, 313 CHEMICALS:** None

**CALIFORNIA PROPOSITION 65:** This product contains no chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.