EC-Safety Data Sheet according ISO 11014/1 and directive (EG) No. 1907/2006 (Reach)

Date Issued: 01.09.2014 Revision: 0002

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) 5561-791-237
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E-Mail: dfa@hahnemuehle.com

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

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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	H
Ethanol	50-70%	64-17-5	200-578-6	F	225
Dimethyl ether	20-30%	115-10-6	603-019-00-8	F+	280, 220
Butyl acetate	1-10%	123-86-4	204-658-1		226, 336
Diacetone alkohol	1-10%	123-42-2	204-626-7	Xi	319, 226
mixture	<0,5%	104810-47-1	400-830-7	N- Xi	411, 317

4. First aid measures

4.1 Description of first aid measures

General remark

If you feel unwell seek medical advice (show label if possible).

Skin contact

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

Inhalation

Provide to fresh air. Seek medical attention if problems persist.

Eye contact

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

Ingestion

Clean mouth with water. Get medical attention in case of problems.

5. Fire-fighting measures

5.1 Extinguishing Media

Suitable extinguishing media	Co-ordinate fire-fighting measures to fire surroundings.
Extinguishing media which must not be used for safety reasons	strong water jet

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance itself, combustion products, resulting gases	In case of fire may be liberated: Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Special protective equipment for firefighters	Use appropriate respiratory protection.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Collect spilled material using paper towels and dispose. Provide adequate ventilation.

6.4 Reference to other sections

Dispose of waste according to applicable legislation.

7. Handling and storage

7.1 Precautions for safe handling

Advices on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Precautions against fire and explosion	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers	Keep in a cool, well-ventilated place.
Further details	Protect from frost and exposure to sun.

8. Exposure controls / personal protection

8.1 exposure limit values: components

MAK-value for component **10000009 Ethanol**

country	type	vaule	unit	text
DEU	WEL	500,000	mL/m³	-
DEU	WEL	960,000	mg/m³	2 (II); DGF; Y
USA	PEL (US)	1000,000	ppm	8h (long term)
USA	PEL (US)	1900,000	mg/m³	8h (long term)

MAK-value for component **10000064 dimethyl ether**

country	type	vaule	unit	text
DEU	WEL	1.000,000	mL/m³	-
DEU	WEL	1.900,000	mg/m³	8 (II); DFG; EU

MAK-value for component **10000065 butyl acetate**

country	type	value	unit	text
DEU	WEL	62,000	mL/m³	-
DEU	WEL	300,000	mg/m³	2 (I); Y; AGS
USA	PEL (US)	150,000	ppm	8h (long term)
USA	PEL (US)	710,000	mg/m³	8h (long term)

MAK-value for component **10000053 diacetone alkohol**

country	type	value	unit	text
DEU	WEL	20,000	mL/m³	-
DEU	WEL	96,000	mg/m³	2 (I); DGF; Y
USA	PEL (US)	50,000	ppm	8h (long term)
USA	PEL (US)	240,000	mg/m³	8h (long term)

8.2 **Exposure Controls**

Respiratory protection	With correct and proper use, and under normal conditions, breathing protection is not required.
Body protection	Wear suitable protective clothing.
Hand protection	Protective gloves Qualified materials: Nitrile rubber Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection	Goggles
General protection and hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Aerosol
Colour	clear
Odour	characteristic
Flashpoint	-41 °C/-42°F
ignition temperature	235 °C/455°F
explosion limits	
lower explosion limit	3 Vol%
upper explosion limit	18,6 Vol%
vapour pressure	
vapour pressure	3.500 hPa
vapour pressure: temperature	20 °C/68°F
density	
density	0,77 g/ml
density: temperature	20 °C/68°F

10. Stability and reactivity

10.1 Reactivity

Product is stable under normal storage conditions.

10.4 Conditions to avoid

To be protected from frost and direct sunlight.

10.6 Hazardous decomposition products

Formation of toxic gases is possible in case of fire.

11. Toxicological information

11.1 Information on toxicological effects

toxicological tests

Acute toxicity	no data available
Inhalation	no data available
Ingestion	no data available
Skin contact	no data available
Eye contact	no data available

12. Ecological information

12.1 Toxicity

aquatic toxicity	no data available

12.2 Persistence and degradability

degradability	The product is partially biologically degradable.

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 **UN Number**

UN1950

14.2 **UN proper shipping name**

Aerosols, flammable

14.3 **Transport hazard classes**

class ADR/RID	2
code: ADR/RID	5F
class IMDG	2.1
class IATA	2.1

14.5 **Environmental hazards**

Marine Pollutant - IMDG	no

14.6 **Special precautions for users**

land transport

hazard inducer	alcohol
danger label ADR	2.1
limited amounts	1L
EQ	E0
special provisions	190 - 327 - 344 - 625
packaging: instructions	P207 - LP02
packaging: special provisions	PP87 - RR6 - L2
special provisions for mixed packing	MP9
ADR transport category	2
ADR tunnel restriction	D
RID transport category	2
RID hazard number	23

sea transport

hazard inducer	alcohol
special provisions	163 - 190 - 277 - 327 - 344 - 959
limited amounts	1L
EQ	E0
packaging: instructions	P207 - LP02
packaging: special provisions	PP87 - L2
EmS	F-D, S-U
stowage and segregation	category A

air transport

hazard inducer	alcohol
passenger	203 (75 kg)
passenger LQ	Y203 (30 kg G)
Cargo	203 (150 kg)
special provisioning	A145 - A153
ERG	10L

15. Regulatory Information

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

Europe

content of VOC [%]	93,5
content of VOC [g/L]	72

Germany

water hazard class	1

16. Other Information

hazard warnings (CLP)	H220	Extremely flammable gas
	H222	Extremely flammable material
	H224	Extremely flammable vapour and liquid
	H225	Highly flammable vapour and liquid
	H226	Flammable vapour and liquid
	H280	Contains gas under pressure; may explode if heated
	H317	May cause an allergic skin reaction
	H336	May cause drowsiness and dizziness
	H411	Toxic to aquatic life with long lasting effects

further information This information is based on our current state of knowledge and describes the security standards applicable to our product for the purpose provided. The information provided here does not constitute a legally binding warranty of specific characteristics or of suitability for a specific application use of the product is thus to be adapted to the user's special conditions and checked by preliminary tests. We are thus unable to guarantee product characteristics or accept a liability for damage arising in connection with the use of our products.