



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

Date Issued: 01.01.2016

Revision: 0004

Hahnemühle FineArt GmbH

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

1.1 Product identifier

Name: identification of the substance Hahnemühle Protective Spray
Trade name Hahnemühle Protective Spray

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

General use

1.3 Details of the supplier of the safety data sheet

Company

Hahnemühle FineArt GmbH
Sales and Marketing
Hahnestr. 5
D-37586 Dassel
Telephone: int+49 (0) 5561-791-237
Telefax: int+49 (0) 5561-791-377
E-Mail: dfa@hahnemuehle.com

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)
Nature of Hazard GHS02 Flame
Signal word Danger
Classification Flam. Aerosol 1; H222 Extremely flammable aerosol.

2.2 Label elements

Labelling (CLP)
Nature of Hazard GHS02 Flame



Signal word Danger
Hazard statements H222 Extremely flammable aerosol.
Safety precautions 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.



2.3 Other hazards

Information pertaining to special dangers for human and environment

Contains Benzotriazole-Derivate: May produce an allergic reaction. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/Information on ingredients

3.1 Substances

Chemical characterization

solvents

Polyvinyl resin

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

3.2 Mixtures

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 mixture	1-10% <0,5%	123-42-2 104810-47-1	204-626-7 400-830-7	Xi N- Xi	319, 226 411, 317

SECTION 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.

SECTION 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.

SECTION 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.

SECTION 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.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

exposure limit values: components

MAK-value for component **1000009 Ethanol**

country	type	vaule	unit	text
DEU	WEL	500,000	mL/m ³	-
DEU	WEL	960,000	mg/m ³	2 (II); DGF; Y
USA	PEL (US)	1000,000	ppm	8h (long term)
USA	PEL (US)	1900,000	mg/m ³	8h (long term)

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

country	type	vaule	unit	text
DEU	WEL	1.000,000	mL/m ³	-
DEU	WEL	1.900,000	mg/m ³	8 (II); DFG; EU

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

country	type	value	unit	text
DEU	WEL	62,000	mL/m ³	-
DEU	WEL	300,000	mg/m ³	2 (I); Y; AGS
USA	PEL (US)	150,000	ppm	8h (long term)
USA	PEL (US)	710,000	mg/m ³	8h (long term)

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

country	type	value	unit	text
DEU	WEL	20,000	mL/m ³	-
DEU	WEL	96,000	mg/m ³	2 (I); DGF; Y
USA	PEL (US)	50,000	ppm	8h (long term)
USA	PEL (US)	240,000	mg/m ³	8h (long term)



8.2 Exposure Controls

Occupational 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.

SECTION 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

SECTION 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.

SECTION 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



SECTION 12: Ecological information

- 12.1 **Toxicity**
aquatic toxicity no data available
- 12.2 **Persistence and degradability**
degradability The product is partially biologically degradable.

SECTION 13: Disposal considerations

- 13.1 **Waste treatment methods**
Do not incinerate. Bury in licensed facility. Follow Federal, State, and local regulations.
Waste key number 160 504
Waste key number Text 160 504 gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport information

- 14.1 **UN Number**
UN1950
- 14.2 **UN proper shipping name**
Product designation: ADR/RID AEROSOLS, flammable
Proper shipping name: IMDG 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 | ethanol |
| hazard label ADR | 2.1 |
| limited quantities | 1L |
| EQ | E0 |
| special provisions | 190 - 327 - 344 - 625 |
| contaminated packaging: instructions | P207 - LP02 |
| contaminated 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 | ethanol |
| special provisions | 63 - 190 - 277 - 327 - 344 - 959 |
| limited quantities | 1L |
| EQ | E0 |
| contaminated packaging: instructions | P207 - LP02 |
| contaminated packaging: special provisions | PP87 - L2 |
| EmS | F-D, S-U |
| stowage and segregation | SW1 - SW22
SG69 |



air transport

hazard inducer	ethanol
EQ	EO
passenger	203 (75 kg)
passenger LQ	Y203 (30 kg G)
Cargo	203 (150 kg)
special provisioning	A145 - A167 - A802
ERG	10L

SECTION 15: Regulatory Information

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

Europe

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

Germany

water hazard class	1
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USA

Signal Word: DANGER!

Principal Hazards: EXTREMELY FLAMMABLE. CONTENTS UNDER PRESSURE. CAUSES EYE IRRITATION.

Hazardous Ingredients: Contains dimethyl ether propellant and ethanol.

Hazard statement: VAPOR HARMFUL. Harmful if swallowed. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Causes eye, skin, nose and throat irritation.

Precaution statement: Keep away from heat sparks and flame. Vapors may cause flash fire. Do not smoke. Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation. USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

First aid statements: If swallowed, do not induce vomiting. Get medical attention immediately. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. In case of eye contact, immediately flush eyes with plenty of water for 15 minutes and get medical attention immediately. For skin, wash thoroughly with soap and water.

Children's statement: KEEP OUT OF REACH OF CHILDREN.

Required statements: CONFORMS TO ASTM D-4236. For additional health information call the Poison Control Center 1-800-222-1222.



SECTION 16: Other Information

hazard warnings (CLP)	H220	Extremely flammable gas.
	H222	Extremely flammable aerosol.
	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.	