



Hahnemühle

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 28/6/2022

Version: 3.0

Language: en-GB

Date of print: 15/7/2022

## Hahnemühle Protective Spray

Material number HM - HM01

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

#### 1.1 Product identifier

Trade name: Hahnemühle Protective Spray

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

General use: Protecting agent

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

Company name: Hahnemühle FineArt GmbH

Street/POB-No.: Hahnestr. 5

Postal Code, city: DE-37586 Dassel

WWW: [www.hahnemuehle.com](http://www.hahnemuehle.com)

E-mail: [dfa@hahnemuehle.com](mailto:dfa@hahnemuehle.com)

Telephone: +49 (0)55 61 791-235

Telefax: +49 (0)55 61 791-340

Department responsible for information:

Sales and Marketing

Telephone: +49 (0) 5561-791-237

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

E-mail: [dfa@hahnemuehle.com](mailto:dfa@hahnemuehle.com)

#### 1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,  
Telephone: +49 551-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to EC regulation 1272/2008 (CLP)

Aerosol 1; H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
Eye Irrit. 2; H319 Causes serious eye irritation.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word: **Danger**

Hazard statements: H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.

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Precautionary statements: 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.
P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Special labelling**

EUH208	Contains alpha-(3-(3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropyl)-w-(3-(3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropoxy)-poly(oxy-1,2-ethanediyl). May produce an allergic reaction.
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**2.3 Other hazards**

Potentially explosive mixtures may form if adequate ventilation is not provided.  
Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Repeated exposure may cause skin dryness or cracking.  
Higher doses may lead to a narcotic effect.

Results of PBT and vPvB assessment:

No data available

**SECTION 3: Composition/information on ingredients**

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterisation: Solvent mixture, polymer-resin

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 200-578-6 CAS 64-17-5	Ethanol	50 - 70 %	Flam. Liq. 2; H225. Eye Irrit. 2; H319.
EC No. 204-658-1 CAS 123-86-4	n-Butyl acetate	1 - 10 %	Flam. Liq. 3; H226. STOT SE 3; H336. (EUH066).
EC No. 204-626-7 CAS 123-42-2	4-Hydroxy-4-methylpentan-2-one	1 - 10 %	Flam. Liq. 3; H226. Eye Irrit. 2; H319.
list no. 600-602-9 CAS 104810-47-1	alpha-(3-(3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropyl)-w-(3-(3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropoxy)-poly(oxy-1,2-ethanediyl)	< 0.5 %	Skin Sens. 1; H317. Aquatic Chronic 2; H411.
REACH 01-2119472128-37-xxxx EC No. 204-065-8 CAS 115-10-6	Dimethyl ether	20 - 30 %	Flam. Gas 1; H220. Press. Gas (Comp.); H280.

Full text of H- and EUH-statements: see section 16.



Additional information: Information about 4-Hydroxy-4-methylpentan-2-one, Specific concentration limits (SCL):  
Eye Irrit. 2; H319: C >= 10 %

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: First aider: Pay attention to self-protection!  
If medical advice is needed, have product container or label at hand.

In case of inhalation: Provide fresh air.  
Seek medical treatment in case of troubles.

Following skin contact: Remove residues with soap and water.  
In case of skin reactions, consult a physician.  
Take off contaminated clothing and wash it before reuse.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.  
Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: Rinse mouth and seek medical attention immediately.

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

Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Repeated exposure may cause skin dryness or cracking.  
Higher doses may lead to a narcotic effect. May cause allergic reactions in already sensitized persons. Causes serious eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons:  
Full water jet

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

Extremely flammable aerosol. Pressurised container: May burst if heated. In case of fire may be liberated: carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:  
Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: -  
Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.  
Move undamaged containers from immediate hazard area if it can be done safely.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
Do not allow fire water to penetrate into surface or ground water.  
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.



## SECTION 6: Accidental release measures

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

Do not breathe spray. Avoid contact with skin, eyes, and clothing.  
In case of leakage, eliminate all ignition sources. Provide adequate ventilation. Wear appropriate protective equipment. Keep unprotected people away. Cordon off downwind area at risk and warn inhabitants. Take off contaminated clothing and wash it before reuse.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.  
If necessary notify appropriate authorities.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Never return spills in original containers for re-use.

Collect spilled material using paper towels and dispose.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Do not breathe spray.

Do not get in eyes, on skin, or on clothing.

Wear appropriate protective equipment.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

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

Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition source.

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

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.

Keep container dry. Keep only in the original container. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Store containers in upright position. Protect from frost.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

### 7.3 Specific end use(s)

No information available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64-17-5	Ethanol	Great Britain: WEL-TWA	1920 mg/m <sup>3</sup> ; 1000 ppm
123-86-4	n-Butyl acetate	Europe: IOELV: STEL Europe: IOELV: TWA	723 mg/m <sup>3</sup> ; 150 ppm 241 mg/m <sup>3</sup> ; 50 ppm
123-42-2	4-Hydroxy-4-methylpentan-2-one	Great Britain: WEL-STEEL	362 mg/m <sup>3</sup> ; 75 ppm
115-10-6	Dimethyl ether	Great Britain: WEL-TWA Europe: IOELV: TWA Great Britain: WEL-STEEL Great Britain: WEL-TWA	241 mg/m <sup>3</sup> ; 50 ppm 1920 mg/m <sup>3</sup> ; 1000 ppm 958 mg/m <sup>3</sup> ; 500 ppm 766 mg/m <sup>3</sup> ; 400 ppm

**8.2 Exposure controls**

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

**Personal protection equipment****Occupational exposure controls**

Respiratory protection: The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Protective gloves according to EN 374.  
Glove material: Nitrile rubber  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Flame retardant, antistatic and chemical resistant protective clothing.

General protection and hygiene measures:

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

Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition source.

Use only non-sparking tools.

Do not breathe spray.

Do not get in eyes, on skin, or on clothing.

Take off contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

When handling large quantities, supply emergency spray.

**Environmental exposure controls**

Do not allow to enter into ground-water, surface water or drains.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Form: Aerosol

Colour: colourless

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Odour:	characteristic
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	-41 °C
Evaporation rate:	No data available
Flammability:	Extremely flammable aerosol.
Explosion limits:	LEL (Lower Explosion Limit): 3.00 Vol-% UEL (Upper Explosive Limit): 18.60 Vol-%
Vapour pressure:	at 20 °C: 3500 hPa
Vapour density:	No data available
Density:	at 20 °C: 0.77 g/mL
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available

**9.2 Other information**

Ignition temperature: 235 °C

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Extremely flammable aerosol.  
Vapours can form explosive mixtures with air.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Pressurised container: May burst if heated.

**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not pierce or burn, even after use.  
Do not spray on an open flame or other ignition source.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Protect from frost.

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available



## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met.

Contains  
alpha-(3-(3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropyl)-w-(3-3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropoxy)-poly(oxy-1,2-ethanediyl). May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

### Symptoms

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

## SECTION 12: Ecological information

### 12.1 Toxicity

Further details: Product is partially biodegradable.

### 12.2 Persistence and degradability

Further details: No data available

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Waste key number: 16 05 04\* = Gases in pressure containers (including halons) containing hazardous substances.

\* = Evidence for disposal must be provided.

Recommendation: Do not pierce or burn, even after use.  
Special waste.  
Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

**Package**

Recommendation: Empty carefully and completely, if possible.  
Handle empty containers with care. Incineration may cause explosion.

**SECTION 14: Transport information****14.1 UN number**

ADR/RID, IMDG, IATA-DGR:  
UN 1950

**14.2 UN proper shipping name**

ADR/RID, IMDG: UN 1950, AEROSOLS  
IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

**14.3 Transport hazard class(es)**

ADR/RID: Class 2, Code: 5F  
IMDG: Class 2.1, Subrisk -  
IATA-DGR: Class 2.1

**14.4 Packing group**

ADR/RID, IATA-DGR: not applicable  
IMDG: -

**14.5 Environmental hazards**

Marine pollutant: NO

**14.6 Special precautions for user****Land transport (ADR/RID)**

Warning board: RID: Kemmler-number 23, UN number UN 1950  
Hazard label: 2.1  
Special provisions: 190 327 344 625  
Limited quantities: 1 L  
EQ: E0  
Package - Instructions: P207 LP200  
Package - Special provisions: PP87 RR6 L2  
Special provisions for packing together: MP9  
Tunnel restriction code: D





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### Sea transport (IMDG)

EmS: F-D, S-U  
Special provisions: 63, 190, 277, 327, 344, 381, 959  
Limited quantities: 1000 mL  
Excepted quantities: E0  
Package - Instructions: P207, LP200  
Package - Provisions: PP87, L2  
IBC - Instructions: -  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: -  
Tank instructions - Provisions: -  
Stowage and handling: SW1 SW22  
Segregation: SG69  
Properties and observations: -  
Segregation group: none

### Air transport (IATA)

Hazard label: Flamm. gas  
Excepted Quantity Code: E0  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G  
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg  
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg  
Special provisions: A145 A167 A802  
Emergency Response Guide-Code (ERG): 10L

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Great Britain

Hazchem-Code: -  
No data available

#### National regulations - EC member states

Volatile organic compounds (VOC):  
93.5 % by weight = 72 g/L



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### Labelling of packaging with <= 125mL content



Signal word:

**Danger**

Hazard statements:

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

EUH208

Contains

alpha-(3-(3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropyl)-w-(3-3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropoxy)-poly(oxy-1,2-ethanediyl). May produce an allergic reaction.

Precautionary statements:

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.

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Physical hazards: Code P3a, Quantity threshold 150 000 kg / 500 000 kg

Use restriction according to REACH annex XVII, no.: 3, 40, 75

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

### Further information

Wording of the H-phrases under paragraph 2 and 3:

H220 = Extremely flammable gas.

H222 = Extremely flammable aerosol.

H225 = Highly flammable liquid and vapour.

H226 = Flammable liquid and vapour.

H229 = Pressurised container: May burst if heated.

H280 = Contains gas under pressure; may explode if heated.

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H336 = May cause drowsiness or dizziness.

H411 = Toxic to aquatic life with long lasting effects.

EUH066 = Repeated exposure may cause skin dryness or cracking.

EUH208 = Contains

alpha-(3-(3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropyl)-w-(3-3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropoxy)-poly(oxy-1,2-ethanediyl). May produce an allergic reaction.



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#### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
STOT SE: Specific target organ toxicity - single exposure  
TRGS: Technical Rules for Hazardous Substances  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 2: Classification, labelling  
General revision

Date of first version: 10/3/2017

#### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.