

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

## 50 401 - AEROSPRAY universal fixative

Article No.	50401	Issue date:	30.05.23
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name 50 401 - AEROSPRAY universal fixative  
REACH registration No. ---  
UFI UFI: M5KG-X4T2-N008-GPDK

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

General use Products for creation of art.

Uses advised against  
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#### 1.3 Details of the supplier of the safety data sheet

H. Schmincke & Co. GmbH & Co. KG  
Otto-Hahn-Strasse 2  
D-40699 Erkrath  
Tel +49 (0) 211 - 2509 - 0  
Fax +49 (0) 211 - 2509 - 479  
info@schmincke.de  
www.schmincke.de  
Schmincke-lab:  
mo-th 8.00-16.30, fr 8.00-13.30  
tel. +49 (0) 211-2509-474  
sdb@schmincke.de

#### 1.4 Emergency telephone number

Emergencycall Berlin  
+49 30-30686700  
(24/7 counseling in german and english)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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

#### 2.2 Label elements

##### Labelling



Signal word Danger

##### Hazard statements

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

##### Safety precautions

P102 Keep out of reach of children.

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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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

### Text for labelling (CLP)

Contains Benzotriazole derivate. May produce an allergic reaction. (EUH208)

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Chemical characterisation

Polyvinyl resin  
Alcohols  
propellant (dimethyl ether)

CAS-Number ---  
EINECS / ELINCS / NLP ---  
EU index number ---  
REACH registration No. ---  
Hazchem-Code ---  
CI-Number ---

### 3.2 Mixtures

#### Substance 1

ethanol: 25 - 50%  
CAS: 64-17-5  
REACH: 01-2119457610-43-XXXX

Eye Irrit. 2; H319 / Flam. Liq. 2; H225

#### Substance 3

4-hydroxy-4-methylpentan-2-one: 2,5 - <5,0%  
CAS: 123-42-2  
REACH: 01-2119473975-21-XXXX

Eye Irrit. 2; H319 / Flam. Liq. 3; H226 / STOT SE 3;  
H335

#### Substance 5

butanone: < 0,5%  
CAS: 78-93-3

-; EUH066 / Eye Irrit. 2; H319 / Flam. Liq. 2; H225 /

#### Substance 2

n-butyl acetate: 5 - 10%  
CAS: 123-86-4

Flam. Liq. 3; H226 / STOT SE 3; H336

#### Substance 4

EO bis(benzotriazolyl)phenylpropionat: < 0,5 %  
CAS: 104810-47-1

Aquatic Chronic 2; H411 / Skin Sens. 1; H317

#### Substance 6

dimethyl ether: 10 - 30%  
CAS: 115-10-6  
REACH: 01-2119472128-37

Compr. Gas; H280 / Flam. Gas 1; H220

### Additional information

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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### General information

If you feel unwell, seek medical advice (show the label where possible).

### In case of inhalation

Provide fresh air. Seek medical attention if problems persist.

### In case of skin contact

Remove residues with soap and water. In case of skin irritation, consult a physician.

### After eye contact

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 10 - 15 minutes. Seek medical attention if irritation persists.

### After swallowing

Rinse mouth with water. Seek medical treatment in case of troubles.

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

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

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## 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

strong water jet

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

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.

#### Additional information

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## 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

#### Methods for cleaning up

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

#### Additional information

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### 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. Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material.

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

**Requirements for storerooms and containers**  
Keep in a cool, well-ventilated place.

**Hints on joint storage**  
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**Storage class**  
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**Further details**  
Protect from frost and exposure to sun.

### 7.3 Specific end use(s)

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

64-17-5 ethanol

DEU	WEL	200,000	mL/m <sup>3</sup>	-
DEU	WEL	380,000	mg/m <sup>3</sup>	2(II); DGF; Y
USA	PEL (US)	1.000,000	ppm	8h (long term)
USA	PEL (US)	1.900,000	mg/m <sup>3</sup>	8h (long term)

123-86-4 n-butyl acetate

DEU	WEL	62,000	mL/m <sup>3</sup>	-
DEU	WEL	300,000	mg/m <sup>3</sup>	2(I); Y; AGS
USA	PEL (US)	150,000	ppm	8h (long term)
USA	PEL (US)	710,000	mg/m <sup>3</sup>	8h (long term)

123-42-2 4-hydroxy-4-methylpentan-2-one

DEU	WEL	20,000	mL/m <sup>3</sup>	-
DEU	WEL	96,000	mg/dm <sup>3</sup>	2(I); DFG, H

78-93-3 butanone

D	WEL	600,000	mg/m <sup>3</sup>	-
D	WEL	200,000	mL/m <sup>3</sup>	1(I); DFG; EU; H; Y

115-10-6 dimethyl ether

DEU	WEL	1.000,000	mL/m <sup>3</sup>	-
DEU	WEL	1.900,000	mg/m <sup>3</sup>	8(II); DFG; EU

### DNEL overview

64-17-5 ethanol

DNEL worker	Long-term - inhalation, systemic effects	950,00000	mg/m <sup>3</sup>
DNEL worker	Long-term - dermal, systemic effects	343,00000	mg/kg
DNEL Consumer	Long-term - oral, systemic effects	87,00000	mg/kg
DNEL Consumer	Long-term - inhalation, systemic effects	114,00000	mg/m <sup>3</sup>
DNEL Consumer	Long-term - dermal, systemic effects	206,00000	mg/kg

### DNEL overview

123-42-2 4-hydroxy-4-methylpentan-2-one

DNEL worker	Long-term - inhalation, systemic effects	32,60000	mg/m <sup>3</sup>
DNEL worker	Long-term - dermal, systemic effects	467,00000	mg/kg bw/day

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DNEL worker	Acute - inhalation, local effects	240,00000	mg/m <sup>3</sup>
DNEL Consumer	Long-term - oral, systemic effects	1,67000	mg/kg bw/day
DNEL Consumer	Long-term - inhalation, systemic effects	5,80000	mg/m <sup>3</sup>
DNEL Consumer	Long-term - dermal, systemic effects	33,00000	mg/kg bw/day

### PNEC overview

64-17-5 ethanol

PNEC soil	0,63000	mg/kg
PNEC aquatic, freshwater	0,96000	mg/L
PNEC aquatic, marine water	0,79000	mg/L
PNEC soil, freshwater	3,60000	mg/kg
PNEC soil, marine water	2,90000	mg/kg
PNEC sewage treatment plant (STP)	580,00000	mg/L

### PNEC overview

123-42-2 4-hydroxy-4-methylpentan-2-one

PNEC aquatic, freshwater	2,00000	mg/L
PNEC aquatic, marine water	0,20000	mg/L
PNEC soil, freshwater	7,40000	mg/kg dw
PNEC soil, marine water	0,74000	mg/kg dw
PNEC sewage treatment plant (STP)	100,00000	mg/L

## 8.2 Exposure controls

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### Occupational exposure controls

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

#### Hand protection

Protective gloves

Qualified materials: Nitrile rubber

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

#### Eye protection

Goggles

#### Body protection

Wear suitable protective clothing.

#### 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

Form	Aerosol
Colour	colourless
Odour	characteristic

	min	max		
Melting point/freezing point	---	---		
Initial boiling point and boiling range	---	---		
Flammability		---		
Explosion limits	3	18,6 Vol%		
Flash point/flash point range	---	-41 °C		
Ignition temperature	235 °C	235 °C		
PH	---	---	---	---
Viscosity	---	---	---	---
Solubility	---	---	---	---

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Partition coefficient: ---  
n-octanol/water  
Vapour pressure 3500 hPa 20 °C ---  
Density and/or relative 0,77 g/ml 20 °C ---  
density  
Relative vapour density --- --- --- ---

Auto-ignition temperature	---	---	---
Refraction index	---	---	---

Danger of explosion ---

### 9.2 Other information

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Product is stable under normal storage conditions.

### 10.2 Chemical stability

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### 10.3 Possibility of hazardous reactions

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### 10.4 Conditions to avoid

Protect from frost and exposure to sun.

### 10.5 Incompatible materials

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### 10.6 Hazardous decomposition products

Hazardous vapours may form during fires.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicological tests

64-17-5 ethanol

oral	LD50	Rat		10470,00000	mg/kg	-
inhalative	LC50	Rat		38,00000	mg/L	(4h)
inhalative	LC50	Mouse	>	20,00000	mg/L	(4h)
dermal	LD50	Rabbit	>	2000,00000	mg/kg	-

#### Toxicological tests

123-86-4 n-butyl acetate

oral	LD50	Rat		10800,00000	mg/kg	-
inhalative	LC50	Rat		1,85000	mg/L	4h
dermal	LD50	Rabbit	>	17600,00000	mg/kg	-

#### Toxicological tests

123-42-2 4-hydroxy-4-methylpentan-2-one

oral	LD50	Rat	>	3000,00000	mg/kg	-
dermal	LD50	Rabbit	>	5000,00000	U/mg	-

#### Toxicological tests

78-93-3 butanone

oral	LD50	Rat		2740,00000	mg/kg	-
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dermal	LD50	Rabbit		6480,00000	mg/kg	-
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### Toxicokinetics, metabolism and distribution

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### Acute toxicity

No data available

### In case of inhalation

No data available

### After swallowing

No data available

### In case of skin contact

No data available

### After eye contact

No data available

### Practical experience

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### General remarks

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### 11.2 Information on other hazards

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Ecotoxicological effects

64-17-5 ethanol

LC50	Leuciscus idus		8140,00000	mg/L	48h
EC50	Chlorella vulgaris		275,00000	mg/L	(72h)
EC50	Daphnia magna	>	10000,00000	mg/L	48h

#### Ecotoxicological effects

123-86-4 n-butyl acetate

LC50	fish	>	100,00000	mg/L	(96h)
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#### Ecotoxicological effects

123-42-2 4-hydroxy-4-methylpentan-2-one

LC50	fish	>	100,00000	mg/L	(96h)
EC50	Algae	>	1000,00000	mg/L	(72h)
EC50	Daphnia magna (Big water)	>	1000,00000	mg/L	(48h)

#### Ecotoxicological effects

78-93-3 butanone

LC50	fish		3220,00000	mg/L	(96h)
EC50	Daphnia magna (Big water)		5090,00000	mg/L	(48h)

### Aquatic toxicity

No data available

### Water Hazard Class

1

### WGK catalog number

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### General information

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### 12.2 Persistence and degradability

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### Further details

Product is partially biodegradable.

### Oxygen demand

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### 12.3 Bioaccumulative potential

#### Bioconcentration factor (BCF)

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#### Partition coefficient: n-octanol/water

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### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Endocrine disrupting properties

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### 12.7 Other adverse effects

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

##### Waste key number

160504 Gases in pressure containers (including halons) containing hazardous substances

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##### Recommendation

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#### Package

##### Waste key number

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##### Recommendation

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

#### Additional information

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## SECTION 14: Transport information

### 14.1 UN number or ID number

1950

### 14.2 UN proper shipping name

ADR, ADN AEROSOLS, flammable

IMDG, IATA AEROSOLS, flammable

### 14.3 Transport hazard class(es)

ADR, ADN 2

IMDG 2.1

IATA 2.1

### 14.4 Packing group



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### 14.5 Environmental hazards

Marine Pollutant - IMDG	No
Marine Pollutant - ADN	---

### 14.6 Special precautions for user

#### Land transport (ADR/RID)

Code: ADR/RID	5F
Kemmler-number	-
Hazard label ADR	2.1
Limited quantities	1L
Package: Instructions	P207 - LP200
Package: Special Provisions	PP87 - RR6 - L2
Special provisions for packing together	MP9
Portable tanks: Instructions	-
Portable tanks: Special Provisions	-
Tank coding	-
Tunnel restriction	D
Remarks	---
EQ	E0
Special Provisions	190 - 327 - 344 - 625

#### Sea transport (IMDG)

Ems	F-D, S-U
Special Provisions	63 - 190 - 277 - 327 - 344 - 381 - 959
Limited quantities	1L
Package: Instructions	P207 - LP200
Package: Special Provisions	PP87 - L2
IBC: Instructions	-
IBC: Provisions	-
Tank instructions IMO	-
Tank instructions UN	-
Tank instructions Special Provisions	-
Stowage and segregation	category A SW1 - SG69
Properties and observations	---
Remarks	---
EQ	E0

#### Air transport (IATA-DGR)

Hazard	-
Passenger	203 (75 kg)
Passenger LQ	Y203 (30 kg G)
Cargo	203 (150 kg)
ERG	10L
Remarks	---
EQ	E0
Special Provisioning	A145 - A167 - A802

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### National regulations

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### Europe

Contents of VOC [%] ---  
Contents of VOC ---  
[g/L]  
Further regulations, limitations and legal requirements  
---

### Germany

Storage class ---  
Water Hazard Class 1  
WGK catalog number ---  
Incident regulation ---  
Information on working limitations  
---  
Further regulations, limitations and legal requirements  
---

### Switzerland

Contents of VOC [%]  
~ 93,5 %  
Further regulations, limitations and legal requirements  
---

### USA

Further regulations, limitations and legal requirements  
---  
Federal Regulations  
---  
State Regulations  
---

### Canada

Further regulations, limitations and legal requirements  
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### 15.2 Chemical Safety Assessment

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## SECTION 16: Other information

### Further information

Hazard statements (CLP)	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. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.
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### 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 an liability for damage arising in connection with the use of our products.

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### Literature

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For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### Reason of change

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### Additional information

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