

# SAFETY DATA SHEET

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

## 50 401 - AEROSPRAY universal fixative

Article No.

Version

6 ( 25.09.17 )

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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**

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

General use

Products for creation of art.

Uses advised against

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

H. Schmincke & Co. GmbH & Co. KG  
Otto-Hahn-Str. 2  
D - 40699 Erkrath  
Tel. +49 (0) 211-2509-0  
Fax. +49 (0) 211-2509-497  
info@schmincke.de  
www.schmincke.de

Dept. responsible for information

Schmincke-lab:  
mo-th 8.00-16.30, fr 8.00-13.30  
Tel. +49 (0) 211-2509-474  
labor@schmincke.de

#### 1.4 Emergency telephone number

**Emergency  
Information  
Phone #**

**Emergencycall Berlin  
(24h - counseling in german and english)  
+49 (0) 30-30686790**

### 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 (CLP)



**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.  
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.

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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.

### 2.3 Other hazards

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  
Customs tariff number  
REACH registration No.  
RTECS-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

#### Substance 5

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

EUH066 / Eye Irrit. 2; H319 / Flam. Liq. 2; H225 /  
STOT SE 3; H336

#### Substance 2

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

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

#### Substance 4

derivate of Benzotriazol: < 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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### 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.

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### **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**

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

## 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**

## 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**

### **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.

### **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**

#### **Storage class**

#### **Further details**

Protect from frost and exposure to sun.

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### 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

64-17-5 ethanol

DEU	WEL	500,000	mL/m <sup>3</sup>	-
DEU	WEL	960,000	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/m <sup>3</sup>	2(I); DGF; H
USA	PEL (US)	50,000	ppm	(8h long term)
USA	PEL (US)	240,000	mg/m <sup>3</sup>	(8h long term)

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

### 8.2 Exposure controls

#### 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

Initial boiling point and  
boiling range

Melting point/freezing point

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Flash point/flash point range -41 °C  
Flammability  
Ignition temperature 235 °C 235 °C  
Auto-ignition temperature  
Explosion limits 3 18,6 Vol%  
Refraction index  
  
Partition coefficient: n-octanol/water  
Danger of explosion  
  
Vapour pressure 3500 hPa 20 °C  
Density 0,77 g/ml 20 °C  
PH value  
  
Viscosity dynamic of  
Viscosity dynamic up to  
  
Viscosity kinematic of  
Viscosity kinematic up to

### 9.2 Other information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Product is stable under normal storage conditions.

### 10.2 Chemical stability

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

Protect from frost and exposure to sun.

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Hazardous vapours may form during fires.

64-17-5	ethanol						
	oral	LD50	Rat		5000,000	mg/kg	-
	inhalative	LC50	Rat	>	1800,000	mg/l	4h
	dermal	LD50	Rabbit	>	10000,000	mg/kg	-
123-86-4	n-butyl acetate						
	oral	LD50	Rat		10800,000	mg/kg	-
	inhalative	LC50	Rat		1,850	mg/l	4h
	dermal	LD50	Rabbit	>	17600,000	mg/kg	-
123-42-2	4-hydroxy-4-methylpentan-2-one						
	oral	LD50	Rat		2520,000	mg/kg	-
	dermal	LD50	Rabbit		13500,000	mg/kg	-
78-93-3	butanone						
	oral	LD50	Rat		2740,000	mg/kg	-
	dermal	LD50	Rabbit		6480,000	mg/kg	-

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

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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

## General remarks

## Toxicological tests

64-17-5	ethanol	LC50	fish		8150,000	mg/l	48h
		EC50	Daphnia magna	>	14221,000	mg/l	48h
123-86-4	n-butyl acetate	LC50	fish	>	100,000	mg/l	(96h)
		LC50	fish		420,000	mg/l	(96 h)
78-93-3	butanone	LC50	fish		3220,000	mg/l	(96h)
		EC50	Daphnia magna (Big water)		5090,000	mg/l	(48h)

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

No data available

#### Water Hazard Class

1

#### WGK catalog number

#### General information

### 12.2 Persistence and degradability

#### Further details

Product is partially biodegradable.

#### Oxygen demand

### 12.3 Bioaccumulative potential

#### Bioconcentration factor (BCF)

Partition coefficient: n-octanol/water

### 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

## Ecotoxicological effects

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Product**  
Waste key number 160504 160504\* Gases in pressure containers (including halons) containing dangerous substances.  
Recommendation

#### Contaminated packaging

Waste key number  
Recommendation

#### Additional information

### SECTION 14: Transport information

#### 14.1 UN 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

-

#### 14.5 Environmental hazards

Marine Pollutant - IMDG No  
Marine Pollutant - ADN

#### 14.6 Special precautions for user

##### Land transport

Code: ADR/RID 5F  
Kemmler-number -  
Hazard label ADR 2.1  
Limited quantities 1L  
Contaminated packaging: Instructions P207 - LP200  
Contaminated packaging: 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

##### Inland waterway craft

Hazard label  
Limited quantities  
Transport permitted  
Equipment necessary  
Ventilation  
Remarks

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EQ  
Special provisions

### Sea transport

EmS	F-D, S-U
Special provisions	63 - 190 - 277 - 327 - 344 - 381 - 959
Limited quantities	1L
Contaminated packaging: Instructions	P207 - LP200
Contaminated packaging: 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

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 Transport in bulk according to Annex II of MARPOL 73/78 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

##### 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

##### Denmark

Further regulations, limitations and legal requirements

##### Hungary

Further regulations, limitations and legal requirements



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### Great Britain

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

### Japan

Further regulations, limitations and legal requirements

### Canada

Further regulations, limitations and legal requirements

## 15.2 Chemical Safety Assessment

## SECTION 16: Other information

### Further information

<b>Hazard statements (CLP)</b>	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.

### **Literature**

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**

### **Additional 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.