

# SAFETY DATA SHEET

03571-0105

MSDS for #03571 - SCHMINCKE UNIVERSAL FIXATIVE Regulation (EC) No. 1907/2006 (REACH)

Page 1 of 11

## 50 401 - AEROSPRAY universal fixative

Article No.	50401	Issue date:	30.05.23
Version	7.2 ( 18.07.22 )	Page	1 / 11

### 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 &amp; Co. GmbH &amp; Co. KG

Otto-Hahn-Strasse 2

D-40699 Erkrath

Tel +49 (0) 211 - 2509 - 0

Fax +49 (0) 211 - 2509 - 479

info@schmincke.de

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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.

Page 1 of 11

# SAFETY DATA SHEET

MSDS for #03571 - SCHMUCK UNIVERSAL FIXATIVE Regulation (EC) No. 1907/2006 (REACH)

Page 2 of 11

## 50 401 - AEROSPRAY universal fixative

<b>Article No.</b>	<b>50401</b>	<b>Issue date:</b>	<b>30.05.23</b>
<b>Version</b>	<b>7.2</b>	<b>Page</b>	<b>2 / 11</b>
	<b>( 18.07.22 )</b>		

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

Item Numbers: 03571-0105, 03571-0144

Page 2 of 11

### 4.1 Description of first aid measures

# SAFETY DATA SHEET

MSDS for #03571 - SCHMNCK universal fixative  
UNW fixative SPRAY Regulation (EC) No. 1907/2006 (REACH)

Page 3 of 11

## 50 401 - AEROSPRAY universal fixative

<b>Article No.</b>	<b>50401</b>	<b>Issue date:</b>	<b>30.05.23</b>
<b>Version</b>	<b>7.2</b>	<b>Page</b>	<b>3 / 11</b>
	<b>( 18.07.22 )</b>		

### 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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Page 3 of 11

# SAFETY DATA SHEET

MSDS for #03571 - SCHMUCK UNIFIX SPRAY Regulation (EC) No. 1907/2006 (REACH)

## 50 401 - AEROSPRAY universal fixative

<b>Article No.</b>	50401		<b>Issue date:</b>	30.05.23
<b>Version</b>	7.2	( 18.07.22 )	<b>Page</b>	4 / 11

### 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

Item Numbers: 03571-0105, 03571-0144 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

# SAFETY DATA SHEET

MSDS for #03571 - SCHMNCK universal fixative Regulation (EC) No. 1907/2006 (REACH)

## 50 401 - AEROSPRAY universal fixative

<b>Article No.</b>	<b>50401</b>		<b>Issue date:</b>	<b>30.05.23</b>
<b>Version</b>	<b>7.2</b>	<b>( 18.07.22 )</b>	<b>Page</b>	<b>5 / 11</b>

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**

<b>Form</b>	Aerosol
<b>Colour</b>	colourless
<b>Odour</b>	characteristic

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

Item Numbers: 03571-0105, 03571-0144



# SAFETY DATA SHEET

MSDS for #03571 - SCHMUCK UNIVERSE SPRAY universal fixative Regulation (EC) No. 1907/2006 (REACH)

## 50 401 - AEROSPRAY universal fixative

<b>Article No.</b>	<b>50401</b>		<b>Issue date:</b>	<b>30.05.23</b>
<b>Version</b>	<b>7.2</b>	<b>( 18.07.22 )</b>	<b>Page</b>	<b>7 / 11</b>

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**

Item Numbers: 03571-0105, 03571-0144

**12.2 Persistence and degradability**

# SAFETY DATA SHEET

MSDS for #03571 - SCHMNCK universal fixative UN 1950 Regulation (EC) No. 1907/2006 (REACH)

Page 8 of 11

## 50 401 - AEROSPRAY universal fixative

Article No.	50401	Issue date:	30.05.23
Version	7.2 ( 18.07.22 )	Page	8 / 11

### 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

Item Numbers: 03571-0105, 03571-0144

Page 8 of 11

### 14.4 Packing group

# SAFETY DATA SHEET

MSDS for #03571 - SCHMNECK universal fixative Regulation (EC) No. 1907/2006 (REACH)

Page 9 of 11

## 50 401 - AEROSPRAY universal fixative

Article No.	50401	Issue date:	30.05.23
Version	7.2	Page	9 / 11
		( 18.07.22 )	

### 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

Item Numbers: 03571-0105, 03571-0144

Page 9 of 11

# SAFETY DATA SHEET

MSDS for #03571 - SCHMUCK UNIFIX SPRAY Regulation (EC) No. 1907/2006 (REACH)

Page 10 of 11

## 50 401 - AEROSPRAY universal fixative

Article No.	50401	Issue date:	30.05.23
Version	7.2 ( 18.07.22 )	Page	10 / 11

### 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 ---

## 15.2 Chemical Safety Assessment

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## 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.

Page 10 of 11

# SAFETY DATA SHEET

MSDS for #03571 - SCHMUCK-UNIVERSALFIXIERUNGSSPRAY  
MSDS for #03571 - SCHMUCK-UNIVERSALFIXIERUNGSSPRAY Regulation (EC) No. 1907/2006 (REACH)

Page 11 of 11

## 50 401 - AEROSPRAY universal fixative

<b>Article No.</b>	<b>50401</b>	<b>Issue date:</b>	<b>30.05.23</b>
<b>Version</b>	<b>7.2</b>	<b>Page</b>	<b>11 / 11</b>
	<b>( 18.07.22 )</b>		

### 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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Die Angaben in diesem Datenblatt sind nach bestem Wissen zusammengestellt und entsprechen dem Stand der Kenntnis zum Überarbeitungsdatum 18.07.22.  
Sie sichern jedoch nicht die Einhaltung bestimmter Eigenschaften im Sinne der Rechtsverbindlichkeit zu.

Page 11 of 11