

SAFETY DATA SHEET

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Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

SAFETY DATA SHEET

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

50 401 - AEROSPRAY universal fixative

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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
Name INCI	
Name Ph. Eur.	
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

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
labor@schmincke.de

1.4 Emergency telephone number

Emergency Information

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.
Flam. Aerosol 1; 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.

Hazard components for labelling

Text for labelling (CLP)

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

2.3 Other hazards

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 / 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

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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.

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,

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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.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

64-17-5 ethanol

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

123-86-4 n-butyl acetate

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)

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

CAN	not required	50,000	mL/m ³	(8h)
CHE	not required	20,000	mL/m ³	(8h)
DEU	WEL	20,000	mL/m ³	-
DEU	WEL	96,000	mg/dm ³	2(I); DFG; H

78-93-3 butanone

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

115-10-6 dimethyl ether

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

DNEL overview

64-17-5 ethanol

DNEL worker	Long-term - inhalation, system	950,00000	mg/m ³
DNEL worker	Long-term - dermal, systemic e	343,00000	mg/kg
DNEL Consumer	Long-term - oral, systemic eff	87,00000	mg/kg
DNEL Consumer	Long-term - inhalation, system	114,00000	mg/m ³
DNEL Consumer	Long-term - dermal, systemic e	206,00000	mg/kg

DNEL overview

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

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oral	DNEL Consumer	1,67000	mg/kg
inhalative	DNEL worker	32,60000	mg/m ³
inhalative	DNEL worker	240,00000	mg/m ³
inhalative	DNEL Consumer	5,80000	mg/m ³
dermal	DNEL worker	467,00000	mg/kg
dermal	DNEL Consumer	167,00000	mg/kg
DNEL worker	Long-term - dermal, systemic e	0,00000	

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 (S	580,00000	mg/L

PNEC overview

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

not required	0,63000	mg/kg
not required	2,00000	mg/L
not required	0,20000	mg/L
not required	9,06000	mg/kg
not required	0,90600	mg/kg
not required	10,00000	mg/L

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		
Flash point/flash point range		-41 °C
Flammability		
Ignition temperature	235 °C	235 °C

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Auto-ignition temperature		
Explosion limits	3	18,6 Vol%
Refraction index		
PH		
Viscosity		
Viscosity		

Vapour pressure	3500 hPa	20 °C
Density	0,77 g/ml	20 °C
Partition coefficient: n-octanol/water		

Danger of explosion

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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	>	2000,00000	mg/kg	-
dermal	LD50	Rabbit	>	5000,00000	U/mg	-

Toxicological tests

78-93-3 butanone

oral	LD50	Rat		2740,00000	mg/kg	-
dermal	LD50	Rabbit		6480,00000	mg/kg	-

Acute toxicity

No data available

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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

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	>	100,00000	mg/L	(72h)
EC50	Daphnia magna (Big water flea)	>	100,00000	mg/L	(48h)

Ecotoxicological effects

78-93-3 butanone

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

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

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General information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Recommendation

Contaminated packaging

Waste key number

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

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 (ADR/RID)

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

Sea transport (IMDG)

EmS F-D, S-U

Special provisions 63 - 190 - 277 - 327 - 344 - 381 - 959

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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 (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 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

Great Britain

Further regulations, limitations and legal requirements

Switzerland

Contents of VOC [%]

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~ 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

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.

Further information

This information is abased 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.