

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

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)

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.

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.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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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-Number: 64-17-5
Classification according to EC regulation 1272/2008 (CLP):
Flam. Liq. 2; H225

Substance 3

4-hydroxy-4-methylpentan-2-one: 2,5 - 5,0 %
CAS-Number: 123-42-2
REACH registration No.: 01-2119473975-21-XXXX

Classification according to EC regulation 1272/2008 (CLP):
Eye Irrit. 2; H319 / Flam. Liq. 3; H226

Substance 5

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

Classification according to EC regulation 1272/2008 (CLP):
Eye Irrit. 2; H319 / Flam. Liq. 2; H225 / STOT SE 3; H336

Substance 2

n-butyl acetate: 5 - 10 %
CAS-Number: 123-86-4
Classification according to EC regulation 1272/2008 (CLP):
Flam. Liq. 3; H226 / STOT SE 3; H336

Substance 4

derivate of Benzotriazol: < 0,5 %
CAS-Number: 104810-47-1

Classification according to EC regulation 1272/2008 (CLP):
Aquatic Chronic 2; H411 / Skin Sens. 1; H317

Substance 6

dimethyl ether: 10 - 30 %
CAS-Number: 115-10-6
REACH registration No.: 01-2119472128-37

Classification according to EC regulation 1272/2008 (CLP):
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.

In case of skin contact

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

After eye contact

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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.

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	500,000	mL/m ³	-
DEU	WEL	960,000	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

DEU	WEL	20,000	mL/m ³	-
DEU	WEL	96,000	mg/m ³	2(I); DGF; H
USA	PEL (US)	50,000	ppm	(8h long term)
USA	PEL (US)	240,000	mg/m ³	(8h long term)

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

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

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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

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

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

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 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.