

AEROSPRAY fixative for pastels / water-colours

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name	50 402 - AEROSPRAY fixative for pastels 50 403 - AEROSPRAY fixative for water-colours
REACH registration No.	
UFI	50 402 - UFI: 48KF-F4GF-X005-50YN 50 403 - UFI: HAKG-Y45V-8008-TCJQ

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

General use
Products for the artistic design of load-bearing and solid substrates.

Uses advised against
Applications other than "General use"

1.3 Details of the supplier of the safety data sheet

H. Schmincke & Co. GmbH & Co. KG
Otto-Hahn-Strasse 2
D-40699 Erkrath
+49 (0) 211 - 2509 - 0
info@schmincke.de
www.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.
STOT SE 3; H336 May cause drowsiness or dizziness.

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.
H336 May cause drowsiness or dizziness.

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.

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- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P261 Avoid breathing spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear eye protection/face protection.
- 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.
- P501 Dispose of contents/container in accordance with national regulations.

Hazard components for labelling

Special provisions concerning the labelling of certain mixtures

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

2.3 Other hazards

This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical characterisation

Polyvinyl resin
 Alcohol
 propellant (propane / butane)
 CAS-Number
 EC-number
 REACH registration No.
 CI-Number

3.2 Mixtures

propan-2-ol: 25 - < 50 %
 CAS: 67-63-0
 REACH: 01-2119457558-25
 Eye Irrit. 2; H319 / Flam. Liq. 2; H225 / STOT SE 3;
 H336

ethanol: 10 - < 25 %
 CAS: 64-17-5
 REACH: 01-2119457610-43-XXXX
 Eye Irrit. 2; H319 / Flam. Liq. 2; H225

4-hydroxy-4-methylpentan-2-one: 1 - < 10 %
 CAS: 123-42-2
 REACH: 01-2119473975-21-XXXX
 Eye Irrit. 2; H319 / Flam. Liq. 3; H226 / STOT SE 3;
 H335

butane: 20 - 30 %
 CAS: 106-97-8
 REACH: 01-2119474691-32
 Compr. Gas; H280 / Flam. Gas 1; H220

propane: 1 - 10 %
 CAS: 74-98-6
 REACH: 01-2119471330-49
 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

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No special measures are required.

In case of skin contact

Thoroughly wash skin with soap and water.
Seek medical attention if irritation persists.

After eye contact

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Seek medical attention if irritation persists.

After swallowing

Rinse mouth with water. Let water be drunken in little sips (dilution effect).
If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No known symptoms to date.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

extinguishing powder carbon dioxide Water spray jet

Extinguishing media which must not be used for safety reasons

none

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****Additional information**

Normally stable, even under fire exposure conditions, and are not reactive with water

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**

Take up mechanically. Wash spill area with plenty of water.

Additional information**6.4 Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advices on safe handling**

Provide good ventilation and/or an exhaust system in the work area. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Precautions against fire and explosion**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storerooms and containers**

Store in a well-ventilated place. Keep container tightly closed.

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Hints on joint storage

Storage class LK 2
Further details storage temperature: from 10 °C to 35 °C

7.3 Specific end use(s)

No special measures necessary if stored and handled as prescribed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL overview

67-63-0	propan-2-ol			
	DNEL worker	Long-term - inhalation, systemic effects	500,00000	mg/m ³
	DNEL worker	Long-term - dermal, systemic effects	888,00000	mg/kg bw/day
	DNEL Consumer	Long-term - oral, systemic effects	26,00000	mg/kg bw/day
	DNEL Consumer	Long-term - inhalation, systemic effects	89,00000	mg/m ³
	DNEL Consumer	Long-term - dermal, systemic effects	319,00000	mg/kg bw/day

DNEL overview

64-17-5	ethanol			
	DNEL worker	Long-term - inhalation, systemic effects	950,00000	mg/m ³
	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 ³
	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 ³
	DNEL worker	Long-term - dermal, systemic effects	467,00000	mg/kg bw/day
	DNEL worker	Acute - inhalation, local effects	240,00000	mg/m ³
	DNEL Consumer	Long-term - oral, systemic effects	1,67000	mg/kg bw/day
	DNEL Consumer	Long-term - inhalation, systemic effects	5,80000	mg/m ³
	DNEL Consumer	Long-term - dermal, systemic effects	33,00000	mg/kg bw/day

PNEC overview

67-63-0	propan-2-ol			
	PNEC soil	28,00000	mg/kg dw	
	PNEC aquatic, freshwater	140,90000	mg/L	
	PNEC aquatic, marine water	140,90000	mg/L	
	PNEC soil, freshwater	552,00000	mg/kg dw	
	PNEC soil, marine water	552,00000	mg/kg dw	
	PNEC sewage treatment plant (STP)	2251,00000	mg/L	

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	
	Item Numbers: 02100-0106 PNEC sewage treatment plant (STP)	580,00000	mg/L	

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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

Occupational exposure controls

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
 Respiratory protection must be worn whenever the WEL levels have been exceeded.
 Combination filtering device (EN 14387) Use filter type A (= against vapours of organic substances)

Hand protection

Qualified materials: Butyl caoutchouc (butyl rubber)

Layer thickness > 0,5 mm

Breakthrough time > 480 min

Butoflex 650 - MAPA GmbH, Industriestraße 21- 25, D-27404 Zeven, Internet: www.mapa-pro.de

All information was derived in accordance with EU directive 89/686/EWG and the resultant EN 374 in cooperation with MAPA GmbH. This recommendation applies exclusively to the product and use named in Section 1. In the event of commingling or deviating conditions, contact the suppliers of CE-approved gloves.

Eye protection

Avoid contact with eyes. Goggles

Body protection

Wash contaminated clothing prior to re-use.

General protection and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 information on basic physical and chemical properties

Form	Aerosol
Colour	colourless
Odour	aromatic

	min	max
Melting point/freezing point		
Initial boiling point and boiling range		
Flammability		
Explosion limits		
Flash point/flash point range	-60 °C	-60 °C
Ignition temperature		
PH		
Viscosity		
Viscosity		
Solubility		
Partition coefficient: n-octanol/water		
Vapour pressure		3500 hPa
Density and/or relative density		0,6 - 0,7 g/ml
Relative vapour density		
Auto-ignition temperature		
Refractive index		
Decomposition temperature		

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Danger of explosion
 particle characteristics

9.2 Other information

Information with regard to physical hazard classes

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

Protect from heat and direct sunlight.

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

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

Toxicological tests

67-63-0 propan-2-ol

oral	LD50	Rat	>=	4500,00000	mg/kg	-
inhalative	LC50	Rat		30,00000	mg/L	(4h)
dermal	LD50	Rabbit	>	5000,00000	mg/kg	-

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

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

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

Toxicological tests

106-97-8 butane

inhalative	LC50	Rat		658,00000	mg/L	(4h)
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Toxicokinetics, metabolism and distribution

Acute toxicity

There are no data available on the mixture itself.

Aspiration hazard

There are no data available on the mixture itself.

After swallowing

No data available

Skin corrosion/irritation

There are no data available on the mixture itself.

Serious eye damage/eye irritation

Causes serious eye irritation.

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Sensibilisation: Respiratory system
Sensibilisation: Skin
STOT-single exposure
STOT-repeated exposure

There are no data available on the mixture itself.
 There are no data available on the mixture itself.
 There are no data available on the mixture itself.
 There are no data available on the mixture itself.

Carcinogenic, germ cell mutagen and reproduction effects
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity

No indications of human germ cell mutagenicity exist.
 No indication of human carcinogenicity.
 No indications of human reproductive toxicity exist.

Practical experience

General remarks

11.2 Information on other hazards

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
 none

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicological effects
 67-63-0

propan-2-ol

LC50	Leuciscus idus	>	100,00000	mg/L	(48h)
EC50	Scenedesmus subspicatus	>	100,00000	mg/L	(72h)
EC50	Daphnia magna (Big water)	>	100,00000	mg/L	(48h)

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
 123-42-2

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)

Aquatic toxicity

No data available

Water Hazard Class

1 schwach wassergefährdend

WGK catalog number

General information

12.2 Persistence and degradability

Further details
Oxygen demand

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)
Partition coefficient: n-octanol/water

There are no data available on the mixture itself.

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Recommendation
Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains.

Package

Waste key number
Recommendation
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

Additional information

<https://www.schmincke.de/en/know-how/good-to-know/disposing-of-washing-water-colour-medium-remains>

SECTION 14: Transport information

14.1 UN number or ID number

UN1950

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)

Classification code ADR/RID 5F
Kemmler-number -
Hazard label ADR 2.1
Limited quantities 1L
Package: Instructions P207 - LP200

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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

Europe

Contents of VOC [%]	97,4
Contents of VOC [g/L]	
Further regulations, limitations and legal requirements	

Germany

Storage class	LK 2
Water Hazard Class	1 schwach wassergefährdend
WGK catalog number	
Major Accident Ordinance (12. BImSchV)	
Information on working limitations	
Further regulations, limitations and legal requirements	

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Switzerland

Contents of VOC [%] ca. 97,4 %
Further regulations, limitations and legal requirements

USA

Further regulations, limitations and legal requirements
Federal Regulations
State Regulations

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.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

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

REGULATION (EU) 2024/2564 - ATP 22

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