

Safety data sheet

according to Regulation (EC) No 1272/2008 (REACH)

edelundstein Fixativ für Rostoberflächen - AEROPUMP Fixative for charcoal and pencil
Status 08.2018

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Designation Fixative for rust surfaces - AEROPUMP Fixative for charcoal and pencil

1.2 Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available

Application of the substance / the mixture: Products for artistic design.

1.3. details of the supplier providing the safety data sheet.

Company name **edelundstein GmbH**
Address **Einsteinstraße 12**
Location and country **33104 Paderborn**
GERMANY
Tel. +49 5254 9330731
Fax + +49 5254 9330733

E-mail of the competent person, **info@edel-und-stein.com**
responsible for the safety data sheet.

1.4. emergency number

For urgent information contact; Technical information: Dr Felix Ferlemann
Berlin Poison Hotline (24 hrs.):

+49 (0) 170 / 7362924

+49 (0) 30 19 240

SECTION 2. possible hazards

2.1 Classification of the substance or mixture.

Classification according to Regulation (EC) 1272/2008 (CPL)



GHS02 Flame
H225 Highly flammable liquid and vapour.



GHS07 Skin Irrt. 2
H319 Causes severe eye irritation.

2.2 Marking elements.

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP Regulation.

Hazard pictograms Globally Harmonized System, EU (GHS): GHS02, GHS07,

Signal word: Danger,

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes severe eye irritation.

Safety instructions:

P102 Keep out of the reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Keep away. Do not smoke.

P260 Do not breathe aerosol.

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove any contact lenses if possible. Continue rinsing.

2.3 Other hazards.

Safety data sheet

according to Regulation (EC) No 1272/2008 (REACH)

edelundstein Fixativ für Rostoberflächen - AEROPUMP Fixative for charcoal and pencil
Status 08.2018

SECTION 3. composition/information on ingredients

3.1 Mixtures.

Hazardous ingredients

Alcohol
Shellac
Ketone resin
CAS number
EINECS / ELINCS / NLP
EU index number
Commodity code foreign trade
REACH registration no.
RTECS no.
DG-EA code (Hazchem)
CI number

3.2 Additional information: For the wording of the listed hazard statements, see section 16.

SECTION 4. first aid measures

4.1 Description of first aid measures

General notes

If you feel unwell, seek medical advice (show the label where possible).

Inhalation

Provide fresh air. Consult a doctor if symptoms persist.

After skin contact

Wash affected areas with soap and water. In case of skin irritation, consult a doctor.

After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses after

Remove if possible. Continue rinsing.

After ingestion

Rinse mouth with water. Consult a doctor if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indications for immediate medical help or special treatment

SECTION 5. fire-fighting measures

5.1 Extinguishing media

Adapt extinguishing measures to the surroundings.

Extinguishing media unsuitable for safety reasons

sharp water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be produced: Carbon monoxide and carbon dioxide

5.3 Advice for fire fighting

Special protective equipment: Use suitable respiratory protection.

Collect the contaminated extinguishing water separately. Do not dispose of in the sewage system.

If possible within the framework of safety, remove the undamaged containers from the immediate danger zone.

PERSONAL PROTECTIVE EQUIPMENT

Normal firefighting clothing, e.g. an open-circuit compressed air respirator (EN 137) firefighting kit (EN469), firefighting gloves (EN 659) and firefighting boots (HO A 29 or A30).

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin and clothing.

6.2 Environmental protection measures

Prevent penetration into soil, pits, cellars, bodies of water and sewers.

Safety data sheet

according to Regulation (EC) No 1272/2008 (REACH)

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Status 08.2018

6.3 Methods and material for retention and cleaning

Soak up spilled material with paper towels and dispose of. Ensure adequate ventilation.

6.4 Reference to other sections

For information on safe handling, see section 7.

For information on personal protective equipment, see section 8.

For information on disposal, see section 13.

SECTION 7. Handling and storage

7.1 Protective measures for safe handling

Notes on safe handling

The usual precautionary measures when handling chemicals must be observed.

Notes on fire and explosion protection

Container is under pressure. Protect from sunlight and temperatures above 50 °C. Even after use, do not open by force or burn. Do not spray against flames or glowing objects.

7.2 Conditions for safe storage taking into account incompatibilities

Requirements for storage rooms and containers

Store container in a cool, well-ventilated place.

Information on storage in one place

Storage class VCI

Other notes

Protect from frost and sunlight.

7.3 Specific end uses

No further relevant information available.

SECTION 8. Exposure controls/personal protective equipment

Additional notes on the design of technical installations

- Washing facilities in the work area
- Provide eye wash or eye wash bottle

8.1 Parameters to be monitored

64-17-5 ethanol

DEU AGW	500,000 mL/m ³ -
DEU AGW	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)

71-36-3 butan-1-ol

DEU AGW	100,000 mL/m ³ 1(I); DFG, Y
DEU AGW	310,000 mg/m ³ 1(I); DFG, Y

8.2 Exposure controls and monitoring.

General protection and hygiene measures

Minimum standards for protective measures when handling working substances are listed in TRGS 500. Do not eat, drink, smoke or sniff at the workplace. Avoid contact with skin, eyes and clothing. Immediately remove soiled, saturated clothing. Wash soiled clothing before reuse. Wash hands before breaks and at the end of work. Use skin care products after work.

HAND PROTECTION



Protect the hands with category II work gloves (see Directive 89/688/EEC and standard EN 374) made of PVC, neoprene, nitrile or equivalent. For a definitive choice of material for the work gloves, the following aspects must be included: Wear, tear resistance and permeability. For homemade gloves, the resistance of the work gloves must be tested before use, as it is not predictable. The gloves have a certain wear time, which depends on the exposure.

EYE PROTECTION/FACE PROTECTION



Normally no personal eye/face protection required. Eye/face protection required for: Splashes, contact with eyes, spraying procedures. Wear a visor bonnet or visor in combination with hermetic goggles (see standard EN 166).

SKIN PROTECTION

Safety data sheet

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edelundstein Fixativ für Rostoberflächen - AEROPUMP Fixative for charcoal and pencil
Status 08.2018

Wear work clothing with long sleeves and category II accident protection footwear (see directive 89/686/EEC and standard EN 344).
Wash with soap and water after removing protective clothing.

ATEM PROTECTION

Respiratory protective equipment must be worn if the occupational exposure limit values (OEL) are exceeded.
Use combination filter unit (EN 14387) Filter type A (= against vapours of organic compounds)

Suitable breathing apparatus

Combination filter unit (EN 14387) Half mask (DIN EN 140) ABEK-P1

Comment

Only use respirators with a CE mark including a four-digit test number. The wearing time limits according to GefStoffV in connection with the rules for the use of respiratory protective equipment (BGR 190) must be observed.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information:

Appearance:

Form: Liquid
colour: colourless
Odour: characteristic

	min	max
Initial boiling point and boiling range	0	0
Melting point/freezing point	0	0
Flash point/flame range	12 °C	12 °C
Flammability		
Ignition temperature	0	0
Auto-ignition temperature		
Explosion limits	0	0
Refractive index		
Partition coefficient n-octanol/water		
Explosion hazard		
Vapour pressure	5.9 kPa	20 °C
Density	0.86 g/ml	20 °C
PH value	0	0
Viscosity dynamic from	0 mPa.s	
Viscosity dynamic up to	0 mPa.s	
Viscosity kinematic from	0 m ² /s	
Viscosity kinematic up to	0 m ² /s	

9.2 Other information: No further relevant information available

SECTION 10. Stability and reactivity

10.1 Reactivity

No hazardous reactions if the regulations/instructions for storage and handling are observed.

10.2 Chemical stability

The product is stable if the regulations/instructions for storage and handling are observed.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4 Conditions to avoid

Protect from frost and sunlight.

10.5 Incompatible materials

10.6 Hazardous decomposition products

In the event of fire, the formation of hazardous vapours is possible.

SECTION 11. Toxicological information

Safety data sheet

according to Regulation (EC) No 1272/2008 (REACH)

edelundstein Fixativ für Rostoberflächen - AEROPUMP Fixative for charcoal and pencil
Status 08.2018

11.1 Information on toxicological effects

Acute toxicity
Inhalation
After ingestion
After skin contact
After eye contact

Experience from the practice
General remarks
Toxicological tests

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 -
71-36-3 butan-1-ol			
oral	LD50	Rat	790,000 mg/kg -
inhalative	LC50	Rat	8000,000 mg/l (4h)
dermal	LD50	Rabbit	3400,000 mg/kg -

SECTION 12. Environmental information

12.1 Toxicity

Aquatic toxicity
Water hazard class 1
WGK catalogue number
General notes

12.2 Persistence and degradability

Other notes
The 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 the PBT and vPvB assessment

No data available

12.6 Other adverse effects

General notes

Ecotoxic effects

64-17-5 ethanol	LC50	Fish	8150,000 mg/l 48h
	EC50	Daphnia magna	14221,000 mg/l 48h
71-36-3 butan-1-ol	EC50	Daphnia magna (Large Was	1983,000 mg/l (48h)
	IC50:	Algae	500,000 mg/l (72h)

SECTION 13. Disposal instructions

13.1 Waste treatment processes

Product

Waste code number
080111 080111* Waste paints and varnishes containing organic solvents or other dangerous substances
Recommendation

Packing

Waste code number
Recommendation

Further information

Safety data sheet

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 Status 08.2018

SECTION 14. Transport information

14.1 UN number: 1263

14.2 UN proper shipping name:

ADR, ADN Paint accessories
 IMDG, IATA PAINT RELATED MATERIAL

14.3 Transport hazard classes:

ADR, ADN 3
 IMDG 3
 IATA 3

14.4 Packing group:

II

14.5 Environmental hazards

Marine Pollutant - IMDG No
 Marine Pollutant - ADN

14.6 Special precautions for the user:

Land transport
 Code: ADR/RID F1
 Hazard number 33
 Hazard label ADR 3
 Limited quantities 5L
 Packaging: Instructions P001 - IBC02 - R001
 Packaging: Special regulations PP1
 Special provisions for mixed packing MP19
 Portable tanks: Instructions T4
 Portable tanks: Special provisions TP1 - TP8 - TP28
 Tank coding LGBF
 Tunnel restriction D/E
 Comments
 EQ E2
 Special regulations 163 - 367 - 640D - 650

Inland waterway transport

Hazard label
 Limited quantities
 Carriage permitted
 Equipment required
 Ventilation
 Comments
 EQ
 Special regulations

Maritime transport

EmS F-E, S-E
 Special regulations 163 - 367
 Limited quantities 5L
 Packaging: Instructions P001
 Packaging: Special regulations PP1
 IBC: Instructions IBC02
 IBC: Regulations -
 Refuelling instructions IMO -
 Tank instructions UN T4
 Tank instructions Special regulations TP1 - TP8 - TP28
 Stowage and segregation category B
 Properties and observations
 Comments
 EQ E2

Safety data sheet

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Status 08.2018

Air transport

Hazard	Flammable liquid
Passenger	353 (5L)
Passenger LQ	Y341 (1L)
Cargo	364 (60L)
ERG	3L
Comments	
EQ	E2
Special Provisioning	A72

14.7 Bulk transport in accordance with Annex II of the MARPOL Convention and according to the IBC Code

No data available

SECTION 15 Legislation

15.1 Safety, health and environmental regulations/legislation specific to the substance or product.

Mixture

National regulations

Europe

VOC content [%]

VOC content [g/L]

Other regulations, restrictions and ordinances

Germany

Storage class VCI

Water hazard class 1

WGK catalogue number

Major Accidents Ordinance

Notes on employment restriction

Other regulations, restrictions and ordinances

Denmark

Other regulations, restrictions and ordinances

Hungary

Other regulations, restrictions and ordinances

Great Britain

Other regulations, restrictions and ordinances

Switzerland

VOC content [%]

~ 90 %

Other regulations, restrictions and ordinances

USA

Other regulations, restrictions and ordinances

Federal Regulations

State Regulations

Japan

Other regulations, restrictions and ordinances

Canada

Other regulations, restrictions and ordinances

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16. other information

Relevant sentences

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes severe eye irritation.

Safety data sheet

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Status 08.2018

H335 May cause respiratory irritation.
H336 May cause drowsiness and dizziness.

Literature

For abbreviations and acronyms, see ECHA: Guidance on information requirements and the Chemical Safety Assessment, Chapter R.20 (List of terms and abbreviations).

The information is based on the current state of our knowledge; it describes the safety requirements of our product, in the specified use. A legally binding assurance of the characteristics or suitability for a specific application cannot be derived from our information, therefore any use of our products is not permitted. to the specific conditions of the user and to check them by means of tests. For this reason we can not assume any warranty for product properties and/or liability for damages arising in connection with the use of our products.
