

Material Safety Data Sheet

According to Regulation (EC) No 1907/2006
(Amended by Regulation (EU) No 453/2010)

Created on: 10.11.2016
Revised on: 10.11.2016
Valid from: 10.11.2016
Version: 1.0

Replaces version:

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

1.1. Product identifier

Vernax Silver

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

Relevant uses

Paint for hardening and protecting gypsum. Only for the professional user.

Uses advised against

Use only for the intended purpose.

1.3. Details of the supplier of the safety data sheet

Hager & Werken GmbH & Co. KG

Ackerstr. 1

D 47269 Duisburg

+49 (203) 99269

info@hagerwerken.de

1.4. Emergency telephone number

+41-44 / 251 51 51

CH: Tox Info Suisse – Speed dialing: 145 (www.toxinfo.ch)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Categories of danger: Flam. Liq. 3
Acute Tox. 4

Hazard statements: Flammable liquid and vapour
Harmful if inhaled

2.2. Label elements according to Regulation (EG) Nr. 1272/2008 (substances) / Directive 1999/45/EG (mixtures)

Hazard pictograms



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Signal word

Warning

Hazardous components for labeling

Ethylacetat

Hazard statements

Flammable liquid and vapour. (H226)

Harmful if inhaled. (H332)

Precautionary statements

Keep out of reach of children. (P102)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

2.3. Other hazards

The ingredients in this mixture do not meet the criteria for classification as PBT or vPvB.

3. Composition/information on ingredients

Classification according to Regulation (EC) No 1272 [CLP]

CAS-No. INDEX-No. EG-No.	Substance	Concentration in %	Classification	
			Hazard category and Hazard coding	Hazard statements
141-78-6 607-022-00-5 205-500-4	Ethylacetat	20-80	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H366
108-88-3 601-021-00-3 203-625-9	Toluol	15-40	Flam. Liq. 2 Repr. 2 Asp. Tox. 1 STOT RE 2 Skin Irrit. 2 STOT SE 3	H225 H316d H304 H373 H315 H336

For the full text of the dangers listed in this section, see section 16.

4. First aid measures

4.1. Description of first aid measures

General information

Bring affected people out from the danger area and lay down. In case of irregular breathing or respiratory arrest, initiate artificial respiration. Take off dirty, soaked clothes immediately. Symptoms of poisoning can also be seen only after a few hours.

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After inhalation

Go to fresh air. If symptoms persist, consult a doctor. In case of unconsciousness use stable side position and seek medical advice.

After skin contact

Wash with water and soap. Remove contaminated clothes and shoes. Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Drink plenty of water, but never give anything to an unconscious person.
Induce vomiting if person is conscious. Seek medical help.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: No information available.
Effects: No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents

Water spray, alcohol resistant foam, dry extinguishing agent or carbon dioxide.

For safety reasons unsuitable extinguishing agents

Water jet

5.2. Special hazards arising from the substance or mixture

Special hazards during fire fighting

Highly flammable. Vapors may form explosive mixtures with air. In case of fire, the following hazardous decomposition products may be produced: Carbon monoxide

5.3. Advice for firefighters

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According to Regulation (EC) No 1907/2006
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Protective equipment

Wear self-contained respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.

6.3. Methods and material for containment and cleaning up

Contain and retain the leaking material with non-combustible, absorbent material (e.g., sand, earth, kieselguhr, vermiculite) and fill into containers for disposal according to local / national legal requirements (see section 13). Ensure adequate ventilation. This product and its container must be disposed of as hazardous waste. Treat the absorbed material according to the section Disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and storage

7.1. Precautions for safe handling

Advice for safe handling

Observe the usual precautions when handling chemicals. Avoid contact with skin and eyes. Keep container tightly closed. Provide sufficient air exchange and / or exhaust ventilation in the workrooms. Emergency fume hoods should be available in the immediate vicinity.

Hygienic measures

Take off dirty, soaked clothes immediately. Do not breathe gas / fumes / vapor / aerosol. Avoid contact with skin and eyes. Do not eat, drink or smoke in the area of application. Keep away from food, drink and animal feed. Wash hands before breaks and at the workplace.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles

Store in a cool, well-ventilated place in the original container.

Information about fire and explosion protection

Vapors and mists may form explosive mixtures with air. Keep away from sources of ignition. Take precaution against electrostatic charge.

Information about storage in one common storage facility

None

7.3. Specific end use(s)

Paint for hardening and protecting gypsum. Only for the professional user.

8. Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits (TRGS 900)

Substance (CAS-Number)	MAK-Value		KZGW		
	ml/m3 (ppm)	mg/m3	ml/m3 (ppm)	mg/m3	
Ethylacetat (141-78-6)	400	1500	800	3000	
Toluol (108-88-3)	50	190	200	760	

Workplace exposure limits (CH)

Substance (CAS-Number)	MAK-Value		KZGW		Notations
	ml/m3 (ppm)	mg/m3	ml/m3 (ppm)	mg/m3	
Ethylacetat (141-78-6)	400	1400	800	2800	H S OL B P C M RF RE SS
Toluol (108-88-3)	50	190	200	760	H OL B RF3 RE3 SSc

8.2. Exposure controls

General protective and hygienic measures

Provide sufficient air exchange and / or exhaust ventilation in the workrooms.

Personal protective equipment

Material Safety Data Sheet

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Breathing equipment:

In case of vapor and aerosols, wear suitable respiratory equipment with a filter. Respiratory protection with filter. Recommended filter type: A

Protection of hands:

Wear suitable protective gloves. Selection of the glove material, taking into account breakthrough times, permeation rates and degradation. Observe the manufacturer's specifications regarding permeability and breakthrough time as well as the special conditions at the workplace (mechanical load, contact duration). Protective gloves should be replaced on first wear signs.

Material: fluorocarbon rubber

Penetration time: ≥ 8 h

Glove thickness: 0,4 mm

Eye protection: Tightly closing goggles

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Form: liquid

Colour: silver colored

Odour: characteristic

Change of state

Boiling point / boiling range: 77,1°C

freezing point: -4°C

Exp.limits: 2,1-11,5 Vol.-%

steam pressure: at 20°C 50 mbar

density: at 20°C 0,93 g/cm³

solubility in water: at 20°C part soluble

More information

Other form: Viscous. data apply to ethyl acetate

9.2. Other information

No further data available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Material Safety Data Sheet

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Created on: 10.11.2016
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Replaces version:

No further data available.

10.2. Chemical stability

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Reaction with strong acids and alkalis.
Reaction with strong oxidizing agents.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

ethanol
carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1. Angaben zu toxikologischen Wirkungen

Acute toxicity

Substance (CAS-Number)	Routes of exposure	Method	Dose	Species
Ethylacetat (141-78-6)	Orally	LD50	5.620 mg/kg (RTECS)	Rat
	Inhalation	LC50	5,86 mg/l; 8 h (Lit.)	Rat
	Dermal	LD50	> 18.000 mg/kg	Rabbit
Toluol (108-88-3)	Orally	LD50	636-5580 mg/kg	Rat
	Inhalation	LD50	> 12000 mg/kg	Rabbit
	Dermal	LC50	28,1 mg/l	Rat

Irritation

Irritates the mucosa.
Irritating / degreasing on prolonged and / or repeated skin contact.

Corrosive

No corrosive effect.

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Awareness

No sensitizing effects known.

Repeated dose toxicity

Can damage liver, kidneys and central nervous system.

Repeated and / or prolonged exposure is serious skin damage possible.

Carcinogenicity

Not tested.

Mutagenicity

Not tested.

Reproductive toxicity

Not tested.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity effects

Substance (CAS-Number)		Method	Dose	Species
Ethylacetat (141-78-6)	Fish toxicity	LC50	230 mg/l; 96 h	Pimephales promelas (fatheaded minnow)
	Aquatic invertebrates	EC50	717 mg/l; 48 h	Daphnia magna (large water flea)
	Water plants	IC50	3.300 mg/l; 48 h	Desmodesmus subspicatus
	Bacteria	EC10	2.900 mg/l; 16 h	Pseudomonas putida
Toluol (108-88-3)	Fish toxicity	LC50	5,8 mg/l/96 h	Onchorhynchus mykiss
	Aquatic invertebrates	EC50	6 mg/l/48 h	Daphnia magna (large water flea)
	Water plants	IC50	12 mg/l/72 h	Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Slightly biodegradable.

12.3. Bioaccumulation potential

Bioaccumulation is not expected.

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12.4. Mobility in the ground

No information available.

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No.1907 / 2006, Annex XIII.

12.6. Other harmful effects

Avoid entering the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product

Disposal together with normal waste is not permitted. Special disposal according to local regulations is required. Do not empty into drains. Contact the waste disposal company.

Contaminated packaging

Contaminated packaging is to be emptied optimally, they can then be recycled after appropriate cleaning. Do not incinerate or dispose of with a cutting torch. Risk of explosion.

European waste catalog key

For this product, no waste code number can be defined according to the European waste list, since only the intended use by the consumer permits allocation. The waste code number must be specified in consultation with the regional waste disposal company.

14. TRANSPORT INFORMATION

14.1. UN-Number

1263

14.2. UN proper shipping name

ADR:	Paint
RID:	Paint
IMDG-Code:	Paint
IATA-DGR:	Paint

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14.3. Transport hazard classifications

ADR-Class:	3
(Class; Classification Code; Hazard identification No.)	3; F1; 33; (D/E)
RID-Class:	3
(Class; Classification Code; Hazard identification No.)	3; F1; 33
IMDG-Class:	3
(Class; EmS)	3; F-E, S-D
IATA-DGR-Class:	3

14.4. Packing group

ADR:	2
RID:	2
IMDG:	2
IATA-DGR:	2

14.5. Danger to the environment

Marking in accordance with 5.2.1.8 ADR:	no
Marking in accordance with 5.2.1.8 RID:	no
Marking in accordance with 5.2.1.6.3 IMDG:	no
Classification as dangerous for the environment according to 2.9.3 IMDG:	no
Marked with "P" as per 2.10 IMDG:	no

14.6. Special precautions for user

Remark: not applicable

14.7. Transport in bulk according to Annex II of MARPOL Convention 73/78 and the IBC Code

IMDG : not applicable

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Information on VOC Directive 2004/42 / EC: 0% (0 g/l)

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National regulations

Water hazard class: 1 - slightly hazardous to water
Status: Mixing rule according to VwVwS Annex 4, No. 3

15.2. Chemical safety assessment

Substance safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATION

Full text of the dangers in section 2 and 3:

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Abbreviations:

EC European Community
CAS Chemical Abstracts Service

More Information:

The information contained in this safety data sheet is based on our knowledge at the time of revision and is intended to describe our products with regard to the safety precautions to be taken. They do not constitute a guarantee for the properties of the described product and no product information or product specification and do not constitute a contractual legal relationship. The data in the safety data sheet are not transferable to other products. If the product mentioned in this Material Safety Data Sheet is mixed with other materials, mixed or processed, or processed, the data contained in this Material Safety Data Sheet may not be transferred to the new material unless otherwise expressly stated otherwise.