

Printing date 12/19/2005

Reviewed on 12/19/2005

* **1 Identification of substance**

· Product details

- Trade name: **Stone Sealer - mat finish**
- Article number: 10840, 10841
- Application of the substance / the preparation Sealing
- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960
Lechstrasse 28 Fax. +49(0)911-644456
D 90451 Nürnberg e-mail info@akemi.de
- Information department: Laboratory

* **2 Composition/Data on components**

· Chemical characterization

- Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	25-50%
EINECS: 265-199-0	Xn, N; R 10-37-51/53-65-66-67	
EU Number: 649-356-00-4		
CAS: 95-63-6	1,2,4-trimethylbenzene	12.5-25%
EINECS: 202-436-9	Xn, N; R 10-20-36/37/38-51/53	
EU Number: 601-043-00-3		
CAS: 108-67-8	mesitylene	<12.5%
EINECS: 203-604-4	Xi, N; R 10-37-51/53	
EU Number: 601-025-00-5		
CAS: 526-73-8	1,2,3-trimethylbenzene	<12.5%
EINECS: 208-394-8		
CAS: 103-65-1	propylbenzene	<12.5%
EINECS: 203-132-9	Xn, N; R 10-37-51/53-65	
EU Number: 601-024-00-X		
CAS: 98-82-8	isopropylbenzene	<12.5%
EINECS: 202-704-5	Xn, N; R 10-37-51/53-65	
EU Number: 601-024-00-X		
CAS: 1330-20-7	xylene (mix)	1-5%
EINECS: 215-535-7	Xn; R 10-20/21-38	
EU Number: 601-022-00-9		

- Additional information: For the wording of the listed risk phrases refer to section 16.

* **3 Hazards identification**

- Hazard description: Xn Harmful
N Dangerous for the environment
- Information pertaining to particular dangers for man and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Has a narcotizing effect.
Flammable.
Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness
- Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

(Contd. on page 2)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/19/2005

Reviewed on 12/19/2005

Trade name: **Stone Sealer - mat finish**

(Contd. of page 1)

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|--|--|
| <ul style="list-style-type: none"> · <u>NFPA ratings (scale 0 - 4)</u> · <u>HMIS-ratings (scale 0 - 4)</u> | Health = 2
Fire = 2
Reactivity = 0
Health = 2
Fire = 2
Reactivity = 0 |
|--|--|

* 4 First aid measures

- | | |
|--|--|
| <ul style="list-style-type: none"> · <u>General information:</u> · <u>After inhalation:</u> · <u>After skin contact:</u> · <u>After eye contact:</u> · <u>After swallowing:</u> · <u>Information for doctor:</u> · <u>The following symptoms may occur:</u> | Immediately remove any clothing soiled by the product.
Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
Clean with water and soap. If possible, also wash with polyethylene glycol 400.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Do not induce vomiting; immediately call for medical help.

Headache
Dizziness
Dizziness |
|--|--|

5 Fire fighting measures

- | | |
|--|---|
| <ul style="list-style-type: none"> · <u>Suitable extinguishing agents:</u> · <u>For safety reasons unsuitable extinguishing agents:</u> · <u>Special hazards caused by the material, its products of combustion or resulting gases:</u> · <u>Protective equipment:</u> | CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Water with full jet

Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Wear fully protective suit.
Wear self-contained respiratory protective device. |
|--|---|

6 Accidental release measures

- | | |
|--|---|
| <ul style="list-style-type: none"> · <u>Person-related safety precautions:</u> · <u>Measures for environmental protection:</u> · <u>Measures for cleaning/collecting:</u> | Wear protective equipment. Keep unprotected persons away.

Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation. |
|--|---|

7 Handling and storage

- | | |
|---|---|
| <ul style="list-style-type: none"> · <u>Handling:</u> · <u>Information for safe handling:</u> · <u>Information about protection against explosions and fires:</u> · <u>Storage:</u> · <u>Requirements to be met by storerooms and receptacles:</u> | Ensure good ventilation/exhaustion at the workplace.

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Store in a cool location. |
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(Contd. on page 3)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/19/2005

Reviewed on 12/19/2005

Trade name: **Stone Sealer - mat finish**

(Contd. of page 2)

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

* 8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace:

95-63-6 1,2,4-trimethylbenzene
REL 125 mg/m³, 25 ppm
TLV 123 mg/m³, 25 ppm

108-67-8 mesitylene
REL 125 mg/m³, 25 ppm
TLV 123 mg/m³, 25 ppm

526-73-8 1,2,3-trimethylbenzene
REL 125 mg/m³, 25 ppm
TLV 123 mg/m³, 25 ppm

98-82-8 isopropylbenzene
PEL 245 mg/m³, 50 ppm
Skin
REL 245 mg/m³, 50 ppm
Skin
TLV 246 mg/m³, 50 ppm

1330-20-7 xylene (mix)
PEL 435 mg/m³, 100 ppm
REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
(o-, m-, & p-isomers)
TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI
- Additional information: The lists that were valid during the creation were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
- Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
Filter AX
- Protection of hands: Solvent resistant gloves
- Material of gloves: Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses
- Body protection: Protective work clothing

9 Physical and chemical properties

- General Information
 - Form: Fluid
 - Color: Colorless

(Contd. on page 4)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/19/2005

Reviewed on 12/19/2005

Trade name: **Stone Sealer - mat finish**

(Contd. of page 3)

<p><u>Odor:</u></p> <p>· <u>Change in condition</u></p> <p> <u>Melting point/Melting range:</u></p> <p> <u>Boiling point/Boiling range:</u></p> <p>· <u>Flash point:</u></p> <p>· <u>Ignition temperature:</u></p> <p>· <u>Auto igniting:</u></p> <p>· <u>Danger of explosion:</u></p> <p>· <u>Explosion limits:</u></p> <p> <u>Lower:</u></p> <p> <u>Upper:</u></p> <p>· <u>Vapor pressure at 20°C (68°F):</u></p> <p>· <u>Density at 20°C (68°F):</u></p> <p>· <u>Solubility in / Miscibility with</u></p> <p> <u>Water:</u></p>	<p>Characteristic</p> <p>Undetermined.</p> <p>160 - 180°C (320 - 356°F)</p> <p>> 40°C (> 104°F)</p> <p>450°C (842°F)</p> <p>Product is not selfigniting.</p> <p>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</p> <p>0.7 Vol %</p> <p>7.5 Vol %</p> <p>5 hPa (4 mm Hg)</p> <p>0.91 g/cm³</p> <p>Not miscible or difficult to mix.</p>
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10 Stability and reactivity

<p>· <u>Thermal decomposition / conditions to be avoided:</u></p> <p>· <u>Dangerous reactions</u></p> <p>· <u>Dangerous products of decomposition:</u></p>	<p>No decomposition if used according to specifications.</p> <p>No dangerous reactions known.</p> <p>No dangerous decomposition products known.</p>
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11 Toxicological information

<p>· <u>Acute toxicity:</u></p> <p>· <u>LD/LC50 values that are relevant for classification:</u></p>	<p>64742-95-6 Solvent naphtha (petroleum), light arom.</p> <p>Oral LD50 >6800 mg/kg (rat)</p> <p>Dermal LD50 >3400 mg/kg (rab)</p> <p>Inhalative LC50/4 h >10.2 mg/l (rat)</p> <p>95-63-6 1,2,4-trimethylbenzene</p> <p>Oral LD50 5000 mg/kg (rat)</p> <p>103-65-1 propylbenzene</p> <p>Oral LD50 6040 mg/kg (rat)</p> <p>98-82-8 isopropylbenzene</p> <p>Oral LD50 1400 mg/kg (rat)</p> <p>Dermal LD50 12300 mg/kg (rbt)</p> <p>Inhalative LC50/4 h 24.7 mg/l (mus)</p> <p>· <u>Primary irritant effect:</u></p> <p>· <u>on the skin:</u></p> <p>· <u>on the eye:</u></p> <p>· <u>Sensitization:</u></p> <p>· <u>Additional toxicological information:</u></p>
	<p>Harmful</p> <p>Irritant</p>
	<p>Irritant to skin and mucous membranes.</p> <p>Irritating effect.</p> <p>No sensitizing effects known.</p> <p>The product shows the following dangers according to internally approved calculation methods for preparations:</p>

12 Ecological information

<p>· <u>Ecotoxicological effects:</u></p> <p>· <u>Remark:</u></p>	<p>Toxic for fish</p>
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(Contd. on page 5)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/19/2005

Reviewed on 12/19/2005

Trade name: **Stone Sealer - mat finish**

(Contd. of page 4)

- General notes: Do not allow product to reach ground water, water course or sewage system.
Water hazard class 2 (Self-assessment): hazardous for water
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

- Product:
· Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
· Recommendation: Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

- DOT regulations:
· Hazard class: 3
· Identification number: UN3295
· Packing group: III
· Proper shipping name (technical name): HYDROCARBONS, LIQUID, N.O.S.
· Label: 3
- Land transport ADR/RID (cross-border):
· ADR/RID class: 3 (F1) Flammable liquids
· Danger code (Kemler): 30
· UN-Number: 3295
· Packaging group: III
· Description of goods: 3295 HYDROCARBONS, LIQUID, N.O.S.
- Maritime transport IMDG:
· IMDG Class: 3
· UN Number: 3295
· Label: 3
· Packaging group: III
· EMS Number: F-E,S-D
· Marine pollutant: No
· Propper shipping name: HYDROCARBONS, LIQUID, N.O.S.
- Air transport ICAO-TI and IATA-DGR:
· ICAO/IATA Class: 3
· UN/ID Number: 3295
· Label: 3
· Packaging group: III
· Propper shipping name: HYDROCARBONS, LIQUID, N.O.S.

15 Regulations

- Sara
· Section 355 (extremely hazardous substances):
None of the ingredient is listed.
- Section 313 (Specific toxic chemical listings):
95-63-6 1,2,4-trimethylbenzene
98-82-8 isopropylbenzene
1330-20-7 xylene (mix)
- TSCA (Toxic Substances Control Act):
All ingredients are listed.

(Contd. on page 6)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/19/2005

Reviewed on 12/19/2005

Trade name: **Stone Sealer - mat finish**

(Contd. of page 5)

- Proposition 65
- Chemicals known to cause cancer:
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
- Cancerogenity categories
- EPA (Environmental Protection Agency)
98-82-8 isopropylbenzene: D;CBD

1330-20-7 xylene (mix): D
- IARC (International Agency for Research on Cancer)
1330-20-7 xylene (mix): 3
- NTP (National Toxicology Program)
None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH)
1330-20-7 xylene (mix): A4
- MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.
- Product related hazard informations: The product has been classified and marked in accordance with directives on hazardous materials.
- Hazard symbols: Xn Harmful
N Dangerous for the environment
- Hazard-determining components of labelling: Solvent naphtha (petroleum), light arom.
- Risk phrases: Flammable.
Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness
- Safety phrases: Keep out of the reach of children.
Do not breathe fumes
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
Wear suitable protective clothing, gloves and eye/face protection.
If swallowed, seek medical advice immediately and show this container or label.
Use only in well-ventilated areas.
- National regulations:
- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

* 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Laboratory

(Contd. on page 7)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 12/19/2005

Reviewed on 12/19/2005

Trade name: **Stone Sealer - mat finish**

(Contd. of page 6)

- Contact: Dieter Zimmermann
- * Data compared to the previous version altered.

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