

Printing date 19.12.2005

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* 1 Identification of the substance/preparation and of the company/undertaking

· Product details

- Trade name: **Stone Impregnation**
- Article number: 10834, 10835
- Application of the substance / the preparation Protective impregnation
- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg
Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de
- Further information obtainable from: Laboratory

* 2 Composition/information on ingredients

- Chemical characterization
- Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	50-100%
EINECS: 265-150-3	Xn; R 10-65-66	
EU Number: 649-327-00-6		
CAS: 34396-03-7	Trimethoxy (2,4,4-trimethylpentyl)silan	1-5%
	R 10-52/53	
- Additional information: For the wording of the listed risk phrases refer to section 16.

* 3 Hazards identification

- Hazard description: Xn Harmful
- Information concerning particular hazards for human 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.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
R 10 Flammable.
R 65 Harmful: may cause lung damage if swallowed.
R 66 Repeated exposure may cause skin dryness or cracking.
- Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First-aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

- Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

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- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting: 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

- Handling:
- Information for safe handling: Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- 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/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing
Avoid contact with the eyes and skin.
- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
Filter AX
- Protection of hands: Protective gloves
- Material of gloves: Fluorocarbon rubber (Viton)
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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Tightly sealed goggles
- Body protection: Protective work clothing

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9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	155 - 200°C

· Flash point: > 40°C

· Ignition temperature: > 240°C

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

· Vapour pressure at 20°C: 1 hPa

· Density at 20°C: ~ 0.79 g/cm³

· Solubility in / Miscibility with water: Not miscible or difficult to mix.

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Dangerous reactions: Reacts with strong oxidizing agents.
Forms flammable gases/fumes.

· Dangerous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >3000 mg/kg (rab)

· Primary irritant effect:

· on the skin: No irritant effect.

· on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

12 Ecological information

· General notes: Do not allow product to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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13 Disposal considerations

- | | |
|--|--|
| <ul style="list-style-type: none">• <u>Product:</u>• <u>Recommendation</u> | Must not be disposed together with household garbage. Do not allow product to reach sewage system. |
| <hr/> | |
| <ul style="list-style-type: none">• <u>European waste catalogue</u> | |
| 20 01 13 solvents | |
| <ul style="list-style-type: none">• <u>Uncleaned packaging:</u>• <u>Recommendation:</u> | Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. |

14 Transport information

- | | |
|--|-----------------------------------|
| · Land transport ADR/RID (cross-border): | |
| · ADR/RID class: | 3 (F1) Flammable liquids. |
| · Danger code (Kemler): | 30 |
| · UN-Number: | 3295 |
| · Packaging group: | III |
| · Hazard label | 3 |
| · 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 |
| · Proper 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 |
| · Proper shipping name: | HYDROCARBONS, LIQUID, N.O.S. |

15 Regulatory information

- | | |
|---|--|
| • <u>Labelling according to EU guidelines:</u> | The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials. |
| • <u>Code letter and hazard designation of product:</u> | Xn Harmful |
| • <u>Hazard-determining components of labelling:</u> | Naphtha (petroleum), hydrotreated heavy |
| • <u>Risk phrases:</u> | 10 Flammable.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking. |
| • <u>Safety phrases:</u> | 2 Keep out of the reach of children.
23 Do not breathe fumes.
24 Avoid contact with skin.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
36/37 Wear suitable protective clothing and gloves.
46 If swallowed, seek medical advice immediately and show this container or label. |

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- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly 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.

- Relevant R-phrases
 - 10 Flammable.
 - 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 65 Harmful: may cause lung damage if swallowed.
 - 66 Repeated exposure may cause skin dryness or cracking.
- Department issuing MSDS: Laboratory
- Contact: Dieter Zimmermann
- * Data compared to the previous version altered.

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