

Printing date 12/19/2005

Reviewed on 12/19/2005

* 1 Identification of substance

- 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
- Information department: Laboratory

* 2 Composition/Data on components

- Chemical characterization
- Description: Mixture of the 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 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.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
Flammable.
Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking
- Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- NFPA ratings (scale 0 - 4) Health = 2
Fire = 2
Reactivity = 0
- HMIS-ratings (scale 0 - 4) Health = 2
Fire = 2
Reactivity = 0

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; immediately call for medical help.

5 Fire fighting measures

- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet

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- Special hazards caused by the material, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.
- 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 protection against explosions and fires: 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 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: 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 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.
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing.
Avoid contact with the eyes and skin.
- Breathing equipment: 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 trough 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

<u>Form:</u>	Fluid
<u>Color:</u>	Colorless
<u>Odor:</u>	Characteristic

· Change in condition

<u>Melting point/Melting range:</u>	Undetermined.
<u>Boiling point/Boiling range:</u>	155 - 200°C (311 - 392°F)

· Flash point: > 40°C (> 104°F)

· Ignition temperature: > 240°C (> 464°F)

· Auto igniting: Product is not selfigniting.

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

· Explosion limits:

<u>Lower:</u>	0.6 Vol %
<u>Upper:</u>	7.0 Vol %

· Vapor pressure at 20°C (68°F): 1 hPa (1 mm Hg)

· Density at 20°C (68°F): ~ 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 products of decomposition:

Carbon monoxide and carbon dioxide

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are 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 internally approved calculation methods for preparations:

12 Ecological information

· General notes:

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

13 Disposal considerations

· Product:

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- 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):
None of the ingredients is listed.
- TSCA (Toxic Substances Control Act):
64742-48-9 Naphtha (petroleum), hydrotreated heavy
- 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)
None of the ingredients is listed.
- IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
- NTP (National Toxicology Program)
None of the ingredients is listed.

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- TLV (Threshold Limit Value established by ACGIH)
77-58-7 dibutyltin dilaurate: 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

- Hazard-determining components of labelling: Naphtha (petroleum), hydrotreated heavy

- Risk phrases: Flammable.
Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking

- Safety phrases: Keep out of the reach of children.
Do not breathe fumes
Avoid contact with skin.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
Wear suitable protective clothing and gloves.
If swallowed, seek medical advice immediately and show this container or label.

- National regulations:

- Water hazard 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.

- Department issuing MSDS: Laboratory
- Contact: Dieter Zimmermann
- * Data compared to the previous version altered.