

Material Safety Data Sheet

According to 91/155 EEC

Printing date 08.06.2006

Reviewed on 08.06.2006

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

· Product details

- Trade name: **Stain Repellent Nano Effect**
- Article number: 10849; 10850; 10851
- 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: 64742-47-8 EINECS: 265-149-8 EU Number: 649-422-00-2	Distillates (petroleum), hydrotreated light	Xn; R 65	50-100%
CAS: 123-86-4 EINECS: 204-658-1 EU Number: 607-025-00-1	n-butyl acetate	R 10-66-67	<12.5%
CAS: 64742-48-9 EINECS: 265-150-3 EU Number: 649-327-00-6	Naphtha (petroleum), hydrotreated heavy	Xn; R 10-65-66	<12.5%

- 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 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.

· Additional information:

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

4 First-aid measures

· General information:

Take affected persons out into the fresh air.

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.

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- Information for doctor: Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously.
- The following symptoms may occur:
 - Headache
 - Dizziness
 - Dizziness
 - Nausea
 - Gastric or intestinal disorders
 - Cramp
- Treatment If swallowed or in case of vomiting, danger of entering the lungs. Monitor circulation.

5 Fire-fighting measures

- Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water.
- 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.
 - Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
 - Carbon monoxide (CO)
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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.
 - Prevent formation of aerosols.
- Information about fire - and explosion protection:
 - Protect against electrostatic charges.
 - Keep ignition sources away - Do not smoke.
- Storage:
- Requirements to be met by storerooms and receptacles:
 - Store in a cool location.
 - Prevent any seepage into the ground.
 - Provide solvent resistant, sealed floor.
- Information about storage in one common storage facility:
 - Do not store together with acids.
 - Store away from oxidizing agents.
 - Store away from foodstuffs.

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- Further information about storage conditions: Protect from heat and direct sunlight.
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:

123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm
Long-term value: 724 mg/m³, 150 ppm

- Additional information: The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.
Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Do not eat or drink while working.
- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Filter AX
- Protection of hands: Solvent resistant gloves
To avoid skin problems reduce the wearing of gloves to the required minimum.
Preventive skin protection by use of skin-protecting agents is recommended.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- 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.
As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material Value for the permeation: Level \geq 480 min (8h) EN 374
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Not suitable are gloves made of the following materials: Strong material gloves
Leather gloves
Natural rubber, NR
- Eye protection: Tightly sealed goggles
- Body protection: Solvent resistant protective clothing

9 Physical and chemical properties

- General Information

Form:	Fluid
Colour:	Colourless
Odour:	Recognizable

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· <u>Change in condition</u>	
Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	124°C
· <u>Flash point:</u>	> 62°C
· <u>Flammability (solid, gaseous):</u>	Not determined
· <u>Ignition temperature:</u>	210°C
· <u>Self-igniting:</u>	Product is not selfigniting.
· <u>Danger of explosion:</u>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <u>Explosion limits:</u>	
Lower:	0.5 Vol %
Upper:	10.4 Vol %
· <u>Vapour pressure at 20°C:</u>	10.7 hPa
· <u>Density at 20°C:</u>	0.786 g/cm ³
· <u>Solubility in / Miscibility with water:</u>	Not miscible or difficult to mix.
· <u>Solvent content:</u>	
Organic solvents:	94.5 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
Reacts with strong oxidizing agents.
Reacts with acids.
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

- Product:
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· <u>European waste catalogue</u>	
20 01 13	solvents
07 07 04	other organic solvents, washing liquids and mother liquors


- Uncleaned packaging:
- Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- Recommended cleansing agents: Alcohol

14 Transport information

- | | |
|--|----|
| · <u>Land transport ADR/RID (cross-border)</u> | |
| · <u>ADR/RID class:</u> | - |
| · <u>Maritime transport IMDG:</u> | |
| · <u>IMDG Class:</u> | - |
| · <u>Marine pollutant:</u> | No |
| · <u>Air transport ICAO-TI and IATA-DGR:</u> | |
| · <u>ICAO/IATA Class:</u> | - |

15 Regulatory information

- Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:  Xn Harmful

- Hazard-determining components of labelling: Distillates (petroleum), hydrotreated light Naphtha (petroleum), hydrotreated heavy
- Risk phrases: 65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
- Safety phrases: 2 Keep out of the reach of children.
23 Do not breathe fumes.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27 Take off immediately all contaminated clothing.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
36/39 Wear suitable protective clothing and eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

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

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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.
 65 Harmful: may cause lung damage if swallowed.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.

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

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