

Printing date 10/05/2005 Reviewed on 10/05/2005

1 Identification of substance

· Product details

· Trade name: **Darkener Super** · Article number: 10940, 10941

· Application of the substance / the

Protective impregnation preparation

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

Lechstrasse 28

D 90451 Nürnberg

· Information department: Laboratory

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e-mail info@akemi.de

2 Composition/Data on components

· Chemical characterization

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

· Dangerous components:

CAS: 64742-48-9 Naphtha (petroleum), hydrotreated heavy 50-100%

EINECS: 265-150-3 EU Number: 649-327-00-6

CAS: 34396-03-7 Trimethoxy (2,4,4-trimethylpentyl)silan <12.5%

CAS: 67-56-1 methanol <1%

EINECS: 200-659-6 EU Number: 603-001-00-X

CAS: 77-58-7 dibutyltin dilaurate <1%

EINECS: 201-039-8

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

3 Hazards identification

· Hazard description: 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 to aquatic organisms, may cause long-term adverse effects in the

aquatic environment

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking

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

· Classification system:

 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.

(Contd. on page 2)

Reviewed on 10/05/2005 Printing date 10/05/2005

Trade name: Darkener Super

· After swallowing: Do not induce vomiting; immediately call for medical help. (Contd. of page 1)

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

· 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 respiatory 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:

· Further information about storage

conditions: Store in cool, dry conditions in well sealed receptacles.

Not required.

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:

67-56-1 methanol

PEL 260 mg/m³, 200 ppm

REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm

TLV Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm

Skin; BEI

(Contd. on page 3)

Printing date 10/05/2005 Reviewed on 10/05/2005

Trade name: Darkener Super

(Contd. of page 2)

77-58-7 dibutyltin dilaurate

PEL 0.1 mg/m³ as Sn REL 0.1 mg/m³ as Sn, Skin

TLV Short-term value: 0.2; A4 mg/m³ Long-term value: 0.1 mg/m³

as Sn; Skin

· 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

9 Physical and chemical properties

· General Information

Form:FluidColor:ColorlessOdor:Characteristic

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:

- Flash point:
- Ignition temperature:

Undetermined.
180°C (356°F)

> 40°C (> 104°F)
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:

 Lower:
 0.6 Vol %

 Upper:
 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.

(Contd. on page 4)

Printing date 10/05/2005 Reviewed on 10/05/2005

Trade name: Darkener Super

(Contd. of page 3)

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)

77-58-7 dibutyltin dilaurate

Oral LD50 175 mg/kg (rat)

· Primary irritant effect:

on the skin:on the eye:No irritant effect.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

Ecotoxical effects:

Remark: Harmful to fish

• General notes: Do not allow undiluted product or large quantities of it to reach ground water,

water course or sewage system.

Water hazard class 1 (Self-assessment): slightly hazardous for water

Harmful to 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: 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

(Contd. on page 5)

Printing date 10/05/2005 Reviewed on 10/05/2005

Trade name: Darkener Super

• 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):

67-56-1 methanol

- TSCA (Toxic Substances Control Act):

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

67-56-1 methanol

77-58-7 dibutyltin dilaurate

Naphtha (petroleum), hydrodesulfurized heavy

64741-65-7 Naphtha (petroleum), heavy alkylate

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive 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.

· TLV (Threshold Limit Value established by ACGIH)

77-58-7 dibutyltin dilaurate

A 4

(Contd. of page 4)

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: Harmful

· Hazard-determining components

of labelling:

Naphtha (petroleum), hydrotreated heavy

• Risk phrases: Flammable.

Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking

(Contd. on page 6)

Printing date 10/05/2005 Reviewed on 10/05/2005

Trade name: Darkener Super

· 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

If swallowed, seek medical advice immediately and show this container or label.

Use only in well-ventilated areas.

· National regulations:

· 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.

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(Contd. of page 5)