

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.04.2009

Revision: 27.04.2009

1 Identification of substance:




- **Product details:**
- **Trade name:** Doka Trenn
- **Application of the substance / the preparation** Concrete releasing agent
- **Manufacturer/Supplier:**
 AVENARIUS-AGRO GmbH
 Agathastr. 2-4
 3300 Amstetten
 e-mail: johann.leitner@avenarius-agro.at
 Tel.: 0043/7472/62622
- **Further information obtainable from:** Laboratory
- **Information in case of emergency:**
 During business hours: laboratory
 Other times: poisoning center vienna: 0043/1/4064343-0

* 2 Hazards identification

- **Hazard description:** not applicable
- **Information concerning to particular hazards to man and environment**
 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.

* 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Blend of mineral oils and vegetable oils, biodegradeable.
- **Dangerous components:**

CAS: 64742-55-8	Highly refined mineral oil	50-100%
EINECS: 265-158-7	 Xn; R 65-66	
CAS: 64742-46-7	Distillates (petroleum), hydrotreated middle	10-20%
EINECS: 265-148-2	 Xn; R 65-66	
CAS: 112-80-1	oleic acid, pure	1.0-5.0%
EINECS: 204-007-1	 Xi; R 36/37/38	
- **Additional information** For the wording of the listed risk phrases refer to section 16.

* 4 First aid measures

- **General information** In any case show the physician the Safety Data Sheet.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact**
 Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- **After eye contact**
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing**
 Rinse out mouth and then drink plenty of water.
 Do not induce vomiting. Keep patient calm and call for a doctor immediately.

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- **Information for doctor**

Aspiration can take place directly or indirectly as consequence of swallowing. A chemical pneumonia can occur.

- **Treatment** If swallowed or in case of vomiting, danger of entering the lungs

* 5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, sand, extinguishing powder, foam. Do not use water.
- **For safety reasons unsuitable extinguishing agents** Water.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
In the event of fire CO, CO₂ and other unhealthy vapours and gases can be released.
Combustion gases of organic materials are to be classified fundamentally as respiration poisons.
- **Protective equipment:** Mount respiratory protective device.
- **Additional information**
Cool closed bundles with water spraying jet, in order to prevent increase of pressure.

6 Accidental release measures

- **Person-related safety precautions:**
Avoid contact with eyes or skin.
Particular danger of slipping on leaked/spilled product.
Wear protective clothing.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Prevent from spreading (e.g. by damming-in or oil barriers).
- **Measures for cleaning/collecting:**
Dispose of the collected material according to regulations.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Remove from the water surface (e.g. skim or suck off)
- **Additional information:**
In case of entry into waterways, soil or drains, inform the responsible authorities.

* 7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Avoid the formation of oil haze.
Avoid contact with eyes, skin and clothing.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**
Keep away from foodstuffs, beverages and feed.
- **Further information about storage conditions:** None.
- **Minimum storage temperature** -10 °C

* 8 Exposure controls and personal protection gear

- **Additional information about design of technical facilities:** No further data; see item 7.

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· **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**

The product should be handled with the usual care when dealing with chemicals.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Do not eat or drink while working.

· **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.

Filter P1.

· **Protection of hands:** Oil resistant gloves

· **Material of gloves**

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**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

· **Not suitable are gloves made of the following materials:**

Leather gloves

Single use gloves

Strong material gloves

· **Eye protection:** Goggles recommended during refilling.

· **Body protection:** Oil resistant protective clothing

* 9 Physical and chemical properties:

· **General Information**

Form:	Fluid
Colour:	Yellowish
Odour:	Mineral-oil-like

· **Change in condition**

Melting point/Melting range: Not applicable

Boiling point/Boiling range: > 200°C

Solidification point: < -15°C

· **Flash point:** > 100°C

· **Ignition temperature:** 250°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

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· Explosion limits:	
Lower:	0.5 Vol %
Upper:	10.0 Vol %
· Vapour pressure at 20°C:	0.1 hPa
· Density at 20°C:	0.840 g/cm ³
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Viscosity:	
kinematic at 23°C:	31 s (ISO 2431-3)
· Solvent content:	
Organic solvents:	1.0 %

* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous decomposition products:** No decomposition at recommended storage.

* 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
LD50: >2000 mg/kg.
(Oral / rat, calculated from the toxic data of the components.)
64742-46-7 Distillates (petroleum), hydrotreated middle
Oral LD50 >5000 mg/kg (rat)
Dermal LD50 >9999 mg/kg (rab)
- **Primary irritant effect:**
- **on the skin:** By repeated and long remaining contact with skin, irritation and inflammation can occur.
- **on the eye:** Irritating effect is possible.
- **Sensitization:** No sensitizing effects known.

* 12 Ecological information:

- **Ecotoxicological effects:**
- **Other information:** Easy degradable (> 80%), according to CEC-L-33-A-93.
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

* 13 Disposal considerations

- **Product:**
- **Recommendation**
Hand in any residual product to an authorised waste-collection agency.

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

Hand over to hazardous waste disposers.

- **European waste catalogue**

17 09 03 other construction and demolition wastes (including mixed wastes) containing dangerous substances

- **Uncleaned packaging:**

- **Recommendation:** Non contaminated packagings may be recycled.

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

* 15 Regulations

- **Labelling according to EU guidelines:**

The product has been marked in accordance with EU Directives / respective national laws.

- **Risk phrases:**

66 Repeated exposure may cause skin dryness or cracking.

- **Safety phrases:**

Keep out of the reach of children.

23 Do not breathe aerosol.

24 Avoid contact with skin.

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

- **National regulations**

- **Technical instructions (air):**

- **Class Share in %**

- **NK 92.0**

16 Other information:

Above informations are given by laboratory analyses and bibliographical datas and based on the technical standard at writings this safety data sheets. It describes safety Characteristics and requirements of products. A claim of warranty in case of lost cannot be deducted. By new edition of safety data sheets older are losing validity.

- **Wording of R-phrases in section 2 and 15**

36/37/38 Irritating to eyes, respiratory system and skin.

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- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

- **Department issuing MSDS:** Laboratory
 - **Contact:** Hr. Dr. Schütter
 - *** Data compared to the previous version altered.**
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