

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2009

Revision: 08.07.2008

1 Identification of substance

- **Product details**
- **Trade name** **Funcosil AG**
- **Article number:** 0655
- **Application of the substance / the preparation** Impregnation
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
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2 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**
R 65 Harmful: may cause lung damage if swallowed.
R 66 Repeated exposure may cause skin dryness or cracking.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Solvent mixture with additives.

- **Dangerous components:**

CAS: 90622-58-5 EINECS: 292-460-6	Alkanes, C11-15-iso-	Xn; R 65-66	80-100%
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy	Xn; R 65	5-10%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

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4 First aid measures

- **General information**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest, provide artificial respiration.

In case of accident or if you feel unwell, seek medical attention immediately (if possible, show label).

- **After inhalation** Take affected persons into the open air and position comfortably

- **After skin contact** Wash immediately with water and soap and rinse thoroughly.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- **After swallowing** Do not induce vomiting; call for medical help immediately.

- **Information for doctor**

Reproduce fat film on the skin in order to prevent dermatitis (skin inflammation).

Give active charcoal to reduce resorption in the gastro-intestinal tract. Gastric irrigation only by endotracheal intubation because of the risk of aspiration. Never give milk or fatty oils.

- **The following symptoms may occur:**

Headache

Dizziness

nausea

Narcotic effect

Dry skin

Skin contact may cause irritation.

5 Fire fighting measures

- **Suitable extinguishing agents**

dry extinguishing agents, foam, CO2

Alcohol-resistant foam

Water spray jet

Water mist

- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

- **Special hazards caused by the material, its products of combustion or flue gases:**

May be released in case of fire

Carbon monoxide (CO)

Hydrogen fluoride (HF)

Vapours are heavier than air and spread out over the ground. Ignition over greater distances is possible.

- **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

- **Additional information** Cool endangered containers with water spray jet.

6 Accidental release measures

- **Person-related safety precautions:**

Keep away from ignition sources

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- **Measures for environmental protection:**

Do not allow to enter the ground/soil.

Inform responsible authorities in case product reaches bodies of water or sewage system.

by setting up barriers made of sand or earth or through other suitable barrier means.

- **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable containers.

Ensure adequate ventilation.

Place leaking containers in a marked drum or recovery drum.

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- **Additional information:**
See Section 13 for information on disposal.
Fumes can combine with air to form an explosive mixture.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Use only in well ventilated areas.
Avoid prolonged or repeated skin contact. Avoid breathing fumes or sprayed mist. Extinguish all open flames, remove sources of ignition, avoid the formation of sparks. Do not smoke. Take precautionary measures against electrostatic charges. Ground all facilities. Do not empty product into waste water drains.
- **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 containers:** Store in cool location.
- **Information on storage in a common storage facility:**
Do not store together with fire promoting and self-igniting materials
- **Further information about storage conditions:**
Store container in a well ventilated position.
Keep container tightly closed.
Do not smoke in storage areas. Storage temperature: room temperature.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** Use only in well-ventilated areas.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from food, beverages and animal feed.
Wash hands before pauses and after work.
Do not inhale gases / vapours / aerosols.
- **Respiratory equipment:**
Filter AX.
In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.
- **Protection of hands:** Solvent resistant gloves
- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material**
Break through time: max. 240 min (DIN EN 374).
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 safety glasses.
- **Body protection:** Protective work clothing.

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9 Physical and chemical properties:

· General Information

Form: Fluid
Colour: clear
Odour: Aromatic

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: 180°C

· **Flash point:** 63°C

· **Ignition temperature:** white spirit

· **Self-inflammability:** Product is not self-igniting.

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

· Explosive Limits:

Lower: 0.6 Vol %
Upper: 7.0 Vol %

· **Vapour pressure at 20°C:** 1.7-3.0 hPa

· **Density at 20°C** 0.77 g/cm³

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

· Viscosity:

kinematic at 20°C: 10 s (DIN 53211/4)

· Solvent content:

Organic solvents: 97.9 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

Can be distilled without decomposing at normal pressure
Avoid: heat, flames, sparks

· **Materials to be avoided:** none known

· Dangerous reactions

Used empty containers may contain product gases which form explosive mixtures with air
Reacts with water to form alcohol.

· **Dangerous decomposition products:** No dangerous decomposition products known

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

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

Oral	LD50	> 2000 mg/kg (Ratte)
Dermal	LD50	> 2000 mg/kg (Kaninchen)
Inhalative	LC50/4 h	> 5 mg/l (Ratte)

· Primary irritant effect:

· on the skin:

No irritating effect.

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- Dries skin out.
- **on the eye:** No irritating effect.
- **Sensitisation:** No sensitising effect known.
- **Subacute to chronic toxicity:** Repeated exposure causes kidney damage in rats.

12 Ecological information:

- **Information on elimination (persistence and degradability):**
- **Other information:** White spirit is readily biodegradable.
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:**
The product floats on water.
The white spirit is absorbed by the ground and is not mobile. It partially evaporates within one day from water and ground surfaces, however, a considerable part remains for a longer period.
Bio-accumulation is potentially possible for white spirit.
- **General notes:**
Water hazard class 2 : hazardous to water.
Do not allow product to reach ground water, bodies of water or sewage system.

13 Notes on disposal:

- **Product:**
- **Recommendation**
Do not dispose of together with household garbage. Do not allow product to reach sewage system.
Liquid material remains are to be disposed of at collection facilities for old varnishes.

· European waste catalogue

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04	other organic solvents, washing liquids and mother liquors

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- **ADR/RID-GGVS/E Class:** -

- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** -
- **Marine pollutant:** -

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

- **Transport/Additional information:** Not a hazardous good according to the above regulations.

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)
Benzene content: < 0,1%. Note P is applicable. It is not necessary to classify nor to mark the product as carcinogenic (R 45). (Recommendation 94/69/EG (21. ATP))

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· **Code letter and hazard designation of product:**



Xn Harmful

· **Hazard-determining components of labelling:**

Alkanes, C11-15-iso-

· **Risk phrases:**

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

· **Safety phrases:**

23 Do not breathe fumes/aerosol.

24 Avoid contact with skin.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

51 Use only in well-ventilated areas.

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

· **National regulations**

· **Ordinance on hazardous incidents (StFV):**

Threshold quantity according to the ordinance on incidents should be observed.

Material group 3 (flammable liquids)

· **Water hazard class:**

German Water hazard class 2: hazardous to water.

according to appendix 4 VwVwS

· **Other regulations, limitations and prohibition ordinances**

· **Professional Association (BG) Code of Practice: M 017 "Solvents"**

16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

· **Relevant R-phrases**

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

· **Department issuing data specification sheet:** Product Safety department