

# Material safety data sheet according to regulation (EC) No 1907/2006, annex II

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## 1. Chemical product and company identification

Trade name: **Metaflux 70-40 Zinc paste**

Use of the preparation: corrosion protection paste

### Techno-Service GmbH

Detmolder Straße 515, D-33605 Bielefeld

Information department:

product security phone: phone: ++49 (0) 521 924440

e-mail: info@metaflux-ts.de

Phone-no of supplier for emergency information: ++49 (0) 521 924440 (Mo – Th 8:00 – 16:30 hrs, Fr –14.00)

## 2. Hazard identification

Preparation is classified as hazardous on the sense of directive 2001/60/EC.

To people:

Flammable.

To the environment:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. Composition/information on ingredients

Chemical characteristics:

Zinc dust in an epoxy resin, containing solvents.

Dangerous ingredients:

Name	EINECS	Weight %	Labelling
Solvent Naphtha	265-199-0	1 - 10	Xn, N, R 11, 37, 51/53, 65
Xylene	215-535-7	1 - 5	Xn, R 10, 21/22, 38
White Spirit	265-185-4	1 - 5	Xn, R 10, 51/53, 65, 66, 67
Zink powder	231-175-3	> 70	N, R 50/53

## 2. Hazard identification

Preparation is classified as hazardous on the sense of directive 1999/45/EC.

To people:

Flammable.

To the environment:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 4. First aid measures

In case of inhalation : fresh air  
In case of skin contact : rinse with water and soap  
After contact with eyes : rinse eyes thoroughly with water, consult physician  
After ingestion : Do not induce vomiting. Danger of aspiration. Rinse out mouth with water and give plenty of water to drink. Summon physician.

## 5. Fire-fighting measures

Suitable extinguishing media : foam, dry powder, carbon dioxide, water spray jet  
Extinguishing media that must not be used :  
Special protective equipment for fire fighters : Do not inhale explosion and/or combustion gases  
Further information : Use water to cool endangered drums.

## 6. Accidental release measures

Environmental precautions : Do not allow to enter canalisation / waterways / groundwater  
Cleaning/Take-up-processes : Soak up with absorbent material and placed in approved containers. Dispose in accordance with federal, state and local environmental regulations.

## 7. Handling and storage

Handling:  
Instructions for safe handling : Keep container tightly closed.  
Requirements for storage rooms: Store in a cool, dry and well-ventilated place  
Protect from sunlight and do not expose to temperatures exceeding 50°C  
Storage class : 3a (VCI)

## 8. Exposure controls / personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
If this is insufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

Ingredients with limiting values to be controlled :

Name	EINECS	OES, MEL, MAK	mg/m <sup>3</sup>	ml/m <sup>3</sup>
Solvent Naphtha	265-199-0	MAK, 8h	500	100
Xylene	215-535-7	OES, long term	441	1000
White Spirit	265-185-4	MAK, 8h	200	50

Personal protective outfit:

Respiratory protection : wear respiratory protection if OES, MEL, MAK-value is exceeded (EN 141)  
Hand protection : wear protective gloves (EN 374) made from natural rubber, thickness: 1.0 mm, permeation time: 10 min., nitril, thickness: 0.8 mm, permeation time: 120 min.)

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

Eye protection : safety glasses in case of splash

General protection and hygienic measures: : Wash hands before break and after work. Remove contaminated clothing. Pay attention to the generally hygiene in the workplace instruction.

Additional information on hand protection: No tests have been performed.

Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## 9. Physical and chemical properties:

Form : liquid  
Colour : grey  
Odour : characteristic

### Safe relevant data:

Boiling point (solvents) : ~ 140 - 180°C

Flash point : >23°C  
Ignition temperature : >465°C

### Explosion hazard

lower explosion limit : 1 Vol.%

upper explosion limit : 8 Vol.%

Density : ~ 2.85 g/ml (20°C)

Solubility : insoluble

pH value : n.a.

Viscosity : ~ 60 s in DIN 4 cup (20°C)

## 10. Stability and reactivity

Hazardous reactions : No hazardous reactions known.

Hazardous decomposition products : No hazardous decomposition products known.

Thermal decomposition : No hazardous decomposition products known.

## 11. Toxicological information

Toxicological effects : no data available

Sensitization : no data available

Further information : classification according to calculation procedure

Local effects : irritating effect to eyes and skin possible

## 12. Ecological information

The product is insoluble in water.

Do not allow to enter canalisation / waterways / groundwater / soil

## 13. Disposal considerations

Advises : Disposal as special waste on acc. with local official regulations

EC disposal code no.  
for the preparation

:  
08 01 11

Wastes from the manufacture, formulation, supply and use of coatings, adhesives, sealants and printing inks.

(waste paint and varnish containing solvents or other dangerous substances)

for contaminated packing  
material

15 01 04

Waste packaging  
(metallic packaging)

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## 14. Transport information

Land transport (GGVS/GGVE)

Class, packing group : 3, III (3, III, ADR)  
UN-No. : 1993  
Technical name : 1993 FLAMMABLE LIQUID N.O.S. (WHITE SPIRIT)  
LQ : 7  
Special information : 640 E

Sea transport (IMDG/GGVSee)

Class : 3  
Packing group : III  
UN-No. : 1993  
EmS : F-E, S-E  
Technical name : UN 1993 FLAMMABLE LIQUID N.O.S. (WHITE SPIRIT)

Aircraft transport (ICAO/IATA)

Class : 3  
Packing group : III  
UN-No. : 1993  
Technical name : 1993 FLAMMABLE LIQUID N.O.S. (WHITE SPIRIT)

## 15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC-Directives (67/548/EEC and 2001/60/EC)

Labelling:

Hazard symbols : N (Dangerous to the environment)

R-phrases : 10 flammable  
50/53 very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : 2 Keep out of reach of children  
60 This material and its container must be disposed of as hazardous waste  
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

National regulations

Water hazard class : 2 (self-classification acc. to VwVwS)

(German only) i.e. hazardous to water

VOC 1999/13/EC : 15 %

Occupational restrictions : Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

## 16. Other information

Wording of the R-phrases specified in chapter 3 (not the classification of the preparation)

R 10: Flammable

R 11: Highly flammable

R 20/21: Harmful by inhalation and in contact with skin

R 38: Irritating to skin

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65: Harmful: may cause lung damage if swallowed

R 66: Repeated exposure may cause skin dryness or cracking

R 67: Vapours may cause drowsiness and dizziness