

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

Revision: 12.06.08

Date of issue: 26.10.09

Page 1 / 5

1. Chemical product and company identification

Trade name: **Metaflux 70-41 Alu-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. Irritating. Irritating to respiratory system and skin.

Repeated exposure may cause skin dryness or cracking.

To the environment:

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

3. Composition/information on ingredients

Chemical characteristics:

Zinc dust and aluminium in an epoxy resin, containing solvents.

Dangerous ingredients:

Name	EINECS	Weight %	Labelling
Solvent Naphtha	265-199-0	10 - 25	Xn, N, R 11, 37, 51/53, 65
Xylene	215-535-7	10 - 25	Xn, R 10, 20/21, 38
Aluminium powder	231-072-3	10 – 25	F, R 11, 66, 67
Zink powder	231-175-3	10 - 25	N, R 50/53

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.

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

Trade name: **Metaflux 70-41 Alu-Zinc paste**

Page 2 / 5

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 ³	ml/m ³
Solvent Naphtha/White Spirit		MAK, 8h	500	100
Xylene	215-535-7	OES, long term	441	1000
Aluminium powder	231-072-3	OES, long-term	10 (total inhale dust) 4 (respirable dust)	

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:
10 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 : silver
Odour : characteristic

Safe relevant data:

Boiling point (Solvents) : ~ 140 - 150 °C
Melting point :
Flash point : >23 °C
Ignition temperature : > 465 °C

Explosion hazard

lower explosion limit : 1 Vol.%
upper explosion limit : 7 Vol.%
Density : ~ 1.09 g/ml (20 °C)
Solubility : insoluble
pH value : n.a.
Viscosity : ~ 280 mPa s

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)

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

Trade name: **Metaflux 70-41 Alu-Zinc paste**

Page 4 / 5

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), Xi (Irritant)

R-phrases
10 flammable
37/38 Irritating to respiratory system and skin
50/53 very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking
67 Vapours may cause drowsiness and dizziness

S-phrases
: 2 Keep out of reach of children
24 Avoid contact with skin
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 : ~ 50 %

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.

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

Trade name: **Metaflux 70-41 Alu-Zinc paste**

Page 5/5

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 37: Irritating to respiratory system

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

This information is based on our present state of knowledge. They describe our product in view of the requirements for safety. They do not assure of certain properties of the product. A legal relationship is not vested. Duplication without changes of the original version is allowed.