

## Safety Data Sheet according to EC-Regulation 91/155/EEC

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

#### Metaflux 70-58 Messing-Spray / Brass-Spray

#### Use of the substance/preparation

Coating

#### Company/undertaking identification

TECHNO-SERVICE GmbH Detmolder Str. 515 D-33605 Bielefeld  
Telephone ++49-521-924440      Telefax ++49-521-207432

#### Emergency telephone / Office for advice

#### Advisory office in case of poisoning:

Tel. --

#### Telephone number of the company in case of emergencies:

Tel. --

### 2. Composition/information on ingredients

2.1 Chemical name	content %	symbol	R- phrases	EINECS, ELINCS	CAS
Xylene	1 -< 12,5	Xn/Xi	10-20/21-38	215-535-7	1330-20-7
Naphtha (petroleum), hydrotreated heavy	1 - 5	Xn	10-65	265-150-3	64742-48-9
Naphtha (petroleum), hydrotreated light	1 - 10	F/Xn	11-52-53-65	265-151-9	64742-49-0
Dimethyl ether	30 - 70	F+	12	204-065-8	115-10-6
Naphtha (petroleum), hydrodesulfurized heavy	1 -< 2,5	Xn/N	10-51-53-65- 66-67	265-185-4	64742-82-1

For complete wording of the R-phrases, refer to point 16.

### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

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

Product is extremely flammable.

The following may occur:

Inhalation of fumes may have narcotic effect.

Contact with skin can cause irritation.

When using: development of explosive vapour/air mixture possible.

#### 3.2 To the environment

See point 12.

Hydrocarbons can be harmful to water.

### 4. First aid measures

#### 4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Keep Data Sheet available.

#### 4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Keep Data Sheet available.

#### 4.3 Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### **4.4 Ingestion**

Do not induce vomiting. Consult doctor immediately.  
Keep Data Sheet available.

#### **4.5 Special resources necessary for first aid**

n.g.

### **5. Fire-fighting measures**

#### **5.1 Suitable extinguishing media**

Dry extinguisher  
CO2

#### **5.2 Extinguishing media which must not be used for safety reasons**

High volume water jet

#### **5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

In case of fire the following can develop:

Gases hazardous to health

Danger of explosion by prolonged heating.

#### **5.4 Special protective equipment for fire-fighters**

Protective respirator with independent air supply

According to size of fire

Full protection, if necessary

#### **5.5 Further information**

Dispose of contaminated extinction water according to official regulations.

### **6. Accidental release measures**

Refer to point 13. and for personal protection refer to point 8.

#### **6.1 Personal precautions**

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

#### **6.2 Environmental measures**

If leakage occurs, dam up.

#### **6.3 Methods for cleaning up**

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

### **7. Handling and storage**

#### **7.1 Handling**

##### **Tips for safe handling:**

See point 6.1

Observe directions on label and instructions for use.

Keep away from sources of ignition - Do not smoke.

Only use working methods according to operating instructions.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Switch on available suction system.

Ensure good ventilation.

#### **7.2. Storage**

##### **Requirements for storage rooms and containers:**

Not to be stored in gangways or stair wells.

Do not store with flammable or self-igniting materials.

Observe regulations for keeping separated.

Store products only unopened, in original packing.

Observe special regulations for aerosols.

Observe TRG 300 (German regulation).

##### **Special storage conditions:**

See point 10.2

Keep protected from direct sunlight and temperatures over 50°C.

## 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 WEL or AG values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Chemical Name	Xylene		
WEL-TWA: 50 ppm (220 mg/m <sup>3</sup> ) (WEL), 50 ppm (221 mg/m <sup>3</sup> ) (EC)	WEL-STEL: 100 ppm (441 mg/m <sup>3</sup> ) (WEL), 100 ppm (442 mg/m <sup>3</sup> ) (EC)	---	
BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, post shift (Xylene, o-, m-, p- or mixed isomers) (BMGV)	Other information: Sk (WEL)		
Chemical Name	Naphtha (petroleum), hydrotreated heavy		
WEL-TWA: 200 ppm (1000 mg/m <sup>3</sup> ) (AG)	WEL-STEL: 4 (AG)	---	
BMGV: ---	Other information: ---		
Chemical Name	Naphtha (petroleum), hydrotreated light		
WEL-TWA: 170 ppm (600 mg/m <sup>3</sup> ) (AG)	WEL-STEL: 4 (AG)	---	
BMGV: ---	Other information: ---		
Chemical Name	Dimethyl ether		
WEL-TWA: 400 ppm (766 mg/m <sup>3</sup> ) (WEL), 1000 ppm (1920 mg/m <sup>3</sup> ) (EC)	WEL-STEL: 500 ppm (958 mg/m <sup>3</sup> ) (WEL)	---	
BMGV: ---	Other information: ---		
Chemical Name	Naphtha (petroleum), hydrodesulfurized heavy		
WEL-TWA: 70 ppm (350 mg/m <sup>3</sup> ) (AG)	WEL-STEL: 4 (AG)	---	
BMGV: ---	Other information: ---		
Chemical Name	n-butyl acetate		
WEL-TWA: 150 ppm (724 mg/m <sup>3</sup> )	WEL-STEL: 200 ppm (966 mg/m <sup>3</sup> )	---	
BMGV: ---	Other information: ---		

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AG = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BG = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

### 8.1 Respiratory protection:

Gas mask filter A (EN 141)

If OES or MEL is exceeded.

### 8.2 Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374)

### 8.3 Eye protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

If applicable

### 8.4 Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

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

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 9. Physical and chemical properties

Physical state:

Aerosol

Substance:

Liquid

Colour:

Brass

Odour:

n.v.

pH-value undiluted:

n.v.

Boiling point/range (°C):

n.v.

Melting point/range (°C):

n.v.

Flash point (°C):	n.g.
Flammability (solid/gas):	Yes
Vapour pressure:	3,5-4,5 bar/20°C, 8,5-9,5 bar/50°C

## 10. Stability and reactivity

### 10.1 Conditions to avoid

See point 7

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

### 10.2 Materials to avoid

See point 7

Avoid contact with oxidizing agents.

Avoid contact with other chemicals.

### 10.3 Hazardous decomposition products

See point 5.3

## 11. Toxicological information

### 11.1 Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.v.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.v.
Skin contact, LD50 rat dermal (mg/kg):	n.v.
Eye contact:	n.v.

### 11.2 Delayed and chronic effects

Sensitization:	n.g.
Carcinogenicity:	n.g.
Mutagenicity:	n.g.
Reproductive toxicity:	n.g.
Narcosis:	Possible

### 11.3. Further information

No classification according to calculation procedure.

## 12. Ecological information

Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.v.
Behaviour in sewage plants:	n.v.
Aquatic toxicity:	n.v.
Ecological toxicity:	n.v.

## 13. Disposal considerations

### 13.1. for the material / preparation / residue

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. dispose at suitable refuse site.

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

## 14. Transport information

### General statements

UN-Number: 1950

### Road/Rail-transport (ADR/RID)

Class/packing-group: 2/-

UN 1950 AEROSOLS

Classification code: 5F

LQ: 2

**Transport by sea**

IMDG-code: 2/II (class/packing-group)

EmS: F-D, S-U

Marine Pollutant: n.a.

AEROSOLS

**Transport by air**

IATA: 2.1/-/ (class/secondary danger/packing-group)

Aerosols, flammable

**Additional information:****Minimum amount regulations have not been taken into account.**

Danger code and packing code on request.

**15. Regulatory information****Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)**

Symbols: F+

Indications of danger: Extremely flammable

R-phrases:

12 Extremely flammable.

Without adequate ventilation, formation of explosive mixtures may be possible.

S-phrases:

9 Keep container in a well-ventilated place.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

35 This material and its container must be disposed of in a safe way.

51 Use only in well-ventilated areas.

Additions:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

Observe restrictions: Yes

Observe youth employment law (German regulation).

**16. Other information**

These details refer to the product as it is delivered.

Storage class VCI (Germany): 2 B

Revised points: 1, 2, 8, 12, 15

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2).

10 Flammable.

20/21 Harmful by inhalation and in contact with skin.

38 Irritating to skin.

65 Also harmful:

may cause lung damage if swallowed.

11 Highly flammable.

52 Harmful to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

12 Extremely flammable.

51 Toxic to aquatic organisms.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

**Legend:**

n.a. = not applicable / n.v., k.D.v. = not available / n.g. = not checked

OES = Occupational exposure standard / MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value

AG = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BG = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.