

## 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 70-81 Gleitmetall (Spray)

#### Use of the substance/preparation

Lubricant

#### Company/undertaking identification

TECHNO-SERVICE GmbH, Detmolder Str. 515, D-33605 Bielefeld  
Telephone ++49-521924440      Telefax ++49-521924440

#### Emergency telephone / Office for advice

#### Advisory office in case of poisoning:

Tel.

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

Tel. ++49-521924440

### 2. Composition/information on ingredients

2.1 Chemical name	content %	symbol	R-phrases	CAS	EINECS, ELINCS
Naphtha (petroleum), hydrotreated light	10 - 30	F/Xn	11-52-53-65		265-151-9
Zinc powder - zinc dust (stabilized)	0,1 -< 2,5	N	50-53		231-175-3
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.

#### 3.2 To the environment

See point 12.

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

### 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.

#### 4.3 Skin contact

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

#### 4.4 Ingestion

Call doctor immediately - have 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

Foam

**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

Decomposition products

Danger of explosion by prolonged heating.

Zinc oxide

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

Protective respirator with independent air supply

**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.

Prevent from entering drainage system.

**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.

Ensure good ventilation.

If applicable:

Switch on available suction system.

**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

**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.

Applies only if maximum permissible exposure values are listed here.

<b>Chemical name</b>	<b>content %</b>	<b>OES, MEL, MAK, TR</b>	<b>BMGV, BAT</b>
Naphtha (petroleum), hydrotreated light	10 - 30	170 ppm (600 mg/m <sup>3</sup> )	
Isobutane		1000 ppm (2400 mg/m <sup>3</sup> )	1000
Propane		ppm (1800 mg/m <sup>3</sup> )	
Butane		600 ppm (1450 mg/m <sup>3</sup> )	

8.1 Respiratory protection:	If OES-, MEL- or MAK-value is exceeded.
Gas mask filter AX (EN 141).	
Observe wearing time limitations for respiratory protection equipment.	
8.2 Hand protection:	Recommended
Protective nitrile gloves (EN 374)	
8.3 Eye protection:	Tight fitting protective goggles (EN 166) with side protection, with danger of projections.
8.4 Skin protection:	Protective working garments (e.g. safety shoes EN 344, long- sleeved protective working garments)

According to operation.

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:	n.v.
Odour:	n.v.
pH-value undiluted:	n.v.
Boiling point/range (°C):	-48 - -1°C *
Melting point/range (°C):	n.v.
Flash point (°C):	n.g.
Flammability (solid/gas):	Yes
Vapour pressure:	4,2 bar/20°C, 8-9 bar/50°C
* Butane	
* Propane	

## 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:	n.g.

### 11.3. Further information

No classification according to calculation procedure.

The following may occur:

Inhalation of fumes may have narcotic effect.

Harmful: may cause lung damage if swallowed.

With long-term contact:

Product removes fat

## 12. Ecological information

Water hazard class (Germany):	1
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.v.
Behaviour in sewage plants:	n.v.
Aquatic toxicity:	52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Ecological toxicity:	n.v.

## 13. Disposal considerations

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

EC disposal code no.:

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

20 01 99 other fractions not otherwise specified

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

Suitable rubbish tip

## 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/- (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)**

5 / 5 EN

Revision: 21.02.2005 Replaces the version of: 19.11.2004 Printing date: 12.07.2005  
Metaflux 70-81 Gleitmetall (Spray)

Symbols: F+

Indications of danger:

Extremely flammable



R-phrases:

12 Extremely flammable.

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

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

(46) If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

Additions: n.a.

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):

2B

Revised points:

2,3,5,6,12,15

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

11 Highly flammable.

52 Harmful to aquatic organisms.

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

65 Harmful:

may cause lung damage if swallowed.

50 Very toxic to aquatic organisms.

## 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 / MAK = Maximum concentration for work place (Germany)

TRK = Technical guidance concentration (Germany) / BAT = Biological tolerance for work place (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.

These statements were made by:

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