




1 Identification of substance

- **Product details** pickling paste
- **Trade name** METAFLUX Beiz- und Polierpaste
- **Article number:** 70-6633
- **Application of the substance / the preparation** Metal surface treatment
- **Manufacturer/Supplier:**
 TECHNO-SERVICE GmbH
 Detmolder Str. 515
 D-33605 Bielefeld
 Tel. +49 521 924440
 Fax +49 521 207432
- **Informing department:**
 Tel. +49 521 924440
- **Emergency information:**
 Canutec: 1-613-996-6666

2 Composition/Data on components:

Chemical characterization

Dangerous components:

CAS: 7697-37-2 EINECS: 231-714-2	nitric acid	 C; R 35	1.0-2.5%
CAS: 7664-39-3 EINECS: 231-634-8	hydrofluoric acid	 T+,  C; R 26/27/28-35	< 1.0%

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

3 Hazards identification

Hazard designation:



Xn Harmful



Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 36/38 Irritating to eyes and skin.

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.

4 First aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact Instantly wash with water and soap and rinse thoroughly.

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EC

revision: 2025-02-25

(Contd. of page 1)

- **After eye contact**
Call a doctor immediately.
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
Continue rinsing until seen by a doctor rinsing in any case should continue for at least 20 minutes.
- **After swallowing** Instantly call for doctor.

5 Fire fighting measures

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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

Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Put on breathing apparatus.

6 Accidental release measures

Person-related safety precautions: Ensure adequate ventilation

Measures for environmental protection: Dilute with much water.

Measures for cleaning/collecting:

Dilute with much water.

Dispose of contaminated material as waste according to chapter 13.

Ensure adequate ventilation.

Absorb with liquid-binding material (e.g. by oil binders or universal binders).

7 Handling and storage

Handling

Information for safe handling: Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: No special measures required.

Storage

Requirements to be met by storerooms and containers: Store only in the original container.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

8 Exposure controls and personal protection

Additional information about design of technical systems: No further data; see chapter 7.

Components with critical values that require monitoring at the workplace:

7697-37-2 nitric acid (1.0-2.5%)

OES Short-term value: 10 mg/m³, 4 ppm

Long-term value: 5.2 mg/m³, 2 ppm

7664-39-3 hydrofluoric acid (< 1.0%)

OES Short-term value: 2.5 mg/m³, 3 ppm
as F

Additional information: The lists that were valid during the compilation were used as basis.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Breathing equipment: Not required.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 3)

Material Safety Data Sheet

According to 91/155 EC

revision: 2025-02-25

(Contd. of page 2)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

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.

9 Physical and chemical properties:

General Information

Form:	Pasty
Colour:	Dark grey
Smell:	Pungent

- **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

- **Flash point:** Not applicable

- **Self-inflammability:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. 1.980

- **Density at 20°C** g/cm³

- **Solubility in / Miscibility with Water:** Fully miscible

- **Solvent content:** 0.0 %
- **Organic solvents:**

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Materials to be avoided:

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition: No dangerous decomposition products known

11 Toxicological information

Acute toxicity:

Primary irritant effect:

on the skin: Irritant for skin and mucous membranes.

on the eye: Irritant effect.

Sensitization: No sensitizing effect known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC

Classification Guidelines for Preparations as issued in the latest version:

Harmful

(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EC

revision: 2025-02-25

Irritant

(Contd. of page 3)

12 Ecological information:

General notes: Generally not hazardous for water.

13 Disposal considerations

Product:

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

11 00 00	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY
11 01 00	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 05	pickling acids

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Water, if necessary with cleaning agent.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)



- **ADR/RID-GGVS/E Class:** 8 Corrosive substances.
- **Kemler Number:** 80
- **UN-Number:** 3264
- **Packaging group:** III
- **Label:** 8
- **Designation of goods:** Corrosive liquid, acidic, inorganic, n.o.s., nitric acid

• **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 8
- **UN Number:** 3264
- **Label:** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Correct technical name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)

• **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8

(Contd. on page 5)

Material Safety Data Sheet

According to 91/155 EC

revision: 2025-02-25

(Contd. of page 4)

- **UN/ID Number:** 3264
- **Label** 8
- **Packaging group:** III
- **Correct technical name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)

15 Regulatory information

Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

Code letter and hazard designation of product:

Xn Harmful

Hazard-determining components of labelling:

hydrofluoric acid

nitric acid

Risk phrases:

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

Safety phrases:

9 Keep container in a well-ventilated place.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

60 This material and its container must be disposed of as hazardous waste.

National regulations

Water hazard class: Generally not hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

35 Causes severe burns.

* **Data compared to the previous version altered.**