

MATERIAL SAFETY DATA SHEET

According EU-Directive 93/112/EWG

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Product Name: **TEPEX[®]**
Type: **TEPEX[®] 108, 208**
Company Identification: Bond-Laminates GmbH
Am Patbergschen Dorn 9
D-59929 Brilon
Emergency Telephone Number: +49 (0) 2961/96628-0

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature::
TEPEX[®] 108: Sheets of thermoplastic polyurethane (TPU)
and glass fibre
TEPEX[®] 208: Sheets of thermoplastic polyurethane (TPU)
and carbon fibre

3. HAZARDS IDENTIFICATION

Specific Hazards: Hazards on cutting edges and skin burns during forming
process on equipment and formed parts.

4. FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of fumes
from overheating or combustion. Consult a physician after
significant exposure.
Skin Contact: Cool skin rapidly with cold water after contact with molten
polymer. Do not peel polymer from the skin.
Eye Contact: In case of contact with eyes, rinse immediately with plenty of
water and seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water, foam, dry chemical, CO₂.
Fire Fighting Instructions: Wear self-contained breathing apparatus.
Wear full protective equipment.
Specific Hazards: Irritating or toxic substances, CO.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None
Environmental Precautions: None

7. HANDLING AND STORAGE

Handling

Precautions: Provide appropriate exhaust ventilation at machinery and at places where dust is formed.
Carbon fibres conduct electricity, suck off directly, where evolved, to protect electrical equipment.

Storage: Keep sheets dry and dust-free.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Personal protective equipment

Respiratory Protection: In case of dust and/or fumes use breathing apparatus
Eye Protection: Safety glasses.
Hand Protection: Heat insulating gloves.
Hygiene Measure: Wash hands before breaks and at the end of a working day.

Exposure Guidelines

Limits respirable dust: TWA (1998) = 6 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form: Sheets
Colour: Various
Odour: None
PH-Number: Not applicable
Melting Point/Range: 177-232°C
Decomposition Temperature: > 290°C
Ignition Temperature: Not determined
Explosive Properties: Not applicable
Density, 23°C: 1,5 – 2,0 g/cm³
Water Solubility: Insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid: Temperature above 290°C and long hold-up time lead to degradation.
Materials to avoid: Not known.
Hazardous Decomposition Products: CO, nitrogene oxides, isocyanate.
Further information: During forming, small amounts of gases may be released. These may irritate eyes, nose and throat.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Through appropriate handling and application as directed the product is not injurious to health due to our experience and information.

Additional advice: During forming with long heating times and/or heating at elevated temperatures it cannot be excluded that volatiles with irritating effects as defined in point 10 "Stability and reactivity" can be released. Therefore sufficient ventilation at the working place is necessary.

12. ECOLOGICAL INFORMATION

Remarks: No ecological testing has been performed.

13. DISPOSAL CONSIDERATIONS

Unused Products: Prove recycling of product.
Product can be land filled or incinerated if in accordance with federal and local regulations.

Contaminated Packaging: Empty containers should be transported to a local recycling or waste disposal.

14. TRANSPORTATION INFORMATION

Not classified as dangerous in the meaning of transport regulations (ADR, GGVS, RID, GGVE, ADN, GGVB, IMDG/UN, ICAO/IATA-DGR)

15. REGULATORY INFORMATION

Hazard Symbol
This material is not subject to classification according to European Union Directives 67/548 and 88/379.

16. OTHER INFORMATION

Do not use in medical applications involving permanent implantation in the human body.

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. The information given is not transferable to other products. The Bond-Laminates GmbH cannot take over the guaranty of the completeness of the information given in this data sheet. Persons receiving this information are strongly requested to prove suitability and completeness for their special applications.