



# FLUORO PACIFIC

Specialist PTFE Processors and Fluoro Polymer Engineers

## MATERIAL SAFETY DATA SHEET

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COMERCIAL PRODUCT NAME: ISOCOMP PTFE fluorocarbon resin filled compounds  
END USE: various

1.1 Chemical characterisation: ISOCOMP PTFE fluorocarbon resin with fillers such as glass fibre, carbon, EG carbon, carbon fibre, graphite, molybdenum disulphide, bronze, stainless steel, mica, nickel, cadmium-free pigments and some high performance polymer fillers

1.2 Form: pellets or powder; 1.3 Colour: various; 1.4 Odour:

### 2 PHYSICAL AND SAFETY DATA

Tested in accordance with:

2.1 Change in physical state:  
Melting point: (resin), 327 – 342 °C ASTM D1457  
Boiling point: °C

2.2 Density: 1.90 – 4.00 kg/l ASTM D792

2.3 Vapour pressure: n.a.

2.4 Viscosity: n.a.

2.5 Solubility in water: insoluble

2.6 PH value: n.a.

2.7 Flash point: n.a.

2.8 Ignition temperature: (resin), > 500 °C ASTM D1929

2.9 Explosion limits: lower: vol.%; upper: vol.%

2.10 Thermal decomposition: (resin), stable up to 260 °C

2.11 Hazardous decomposition products: fluorinated olefins, carbonylfluoride, hydrogen fluoride,

2.12 Hazardous reactions: with magnesium or aluminium powder at 425 °C, with molten alkali metals, or with interhalogen compounds.  
Secondary reaction between filler and resin decomposition products are possible, eg. metal halide formation from bronze filler

2.13 Further information: Perfluoroisobutylene starts forming at around 500 °C, when degradation occurs in the presence of air.

3 TRANSPORTATION Not a dangerous good in the meaning of the transport regulations

### 4 REGULATIONS

The product does not need to be labelled according to the EC-Directive 67/548 as amended.





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hydrogen fluoride (as F): 8-h TWA = 3 ml/m<sup>3</sup> = 2.5 mg/m<sup>3</sup>  
10-min TWA = 6 ml/m<sup>3</sup> = 5 mg/m<sup>3</sup>

carbon black: 8-h TWA = 3.5 mg/m<sup>3</sup>  
10-min TWA = 7 mg/m<sup>3</sup>

mica respirable dust: 8-h TWA = 1 mg/m<sup>3</sup>

nickel: 8-h TWA = 1 mg/m<sup>3</sup>

## **8 INFORMATION ON ECOLOGICAL EFFECTS**

Ecotoxicological information

Aquatic toxicity: No information is available. Toxicity is expected to be low based on insolubility in water.

## **9 FURTHER INFORMATION**

Further safety information on this product is available from ISOCOMP Technologies.

n.a. = not applicable

This data relates only to the material designated herein and does not apply to use in combination with any other material or in any process. The data is not to be considered as a warranty or quality specification and we assume no liability in connection with its use