

Date of Issue: 22.03.2004  
Replaced Data Sheet: May 2002  
Product Name: Joint Sealing Compound PU 4009 grey (Resin)

Page 1 of 4

---

**\*1 Identification of the Substance/Preparation and the Company**

Product Name: **Joint Sealing Compound PU 4009 grey (Resin)**  
Application: Resin component for the production of polyurethanes.  
Producer/Supplier: HÖHNE GmbH  
Mühlenstraße 76  
D-25421 Pinneberg (Germany)  
Telephone: +49 - (0)4101 / 5453 - 0 / Fax: - 33  
Internet: www.hoehne.de / E-Mail: info@hoehne.de  
Emergency Phone No.: In an emergency dial your local Emergency Call.  
Keep this Safety Data Sheet at hand.

---

**\*2 Composition / Information on Ingredients**

Polyurethane resin component (composition) based on polyetherpolyols.  
Hazardous Ingredient(s):  
The composition contains no hazardous ingredients.

---

**\*3 Hazards Identification**

Special Hazard Identification for Human and Environment:  
Hazard warning not required.  
No specific hazards under normal conditions of handling and use.

---

**\*4 First-Aid Measures**

General:  
Remove soiled, soaked clothing and shoes.  
Inhalation:  
Unlikely to be hazardous by inhalation. Take the person into the fresh air and keep him warm, let him rest.  
Skin Contact:  
Wash with plenty of cold or lukewarm water and soap.  
Eye Contact:  
In the event of contact with the eyes, hold the eyes open and rinse with lukewarm water for a sufficiently long period of time (10 minutes). A doctor (or eye specialist) should be consulted immediately.  
Swallowing:  
Do not induce vomiting. Do not swallow. Provided the patient is conscious, wash out mouth with water (do not swallow). Medical advice is required.

---

**\*5 Fire-Fighting Measures**

Suitable Extinguishing Media:  
Foam, CO<sub>2</sub> or dry powder. In case of larger fires, water spray should be used.  
Extinguishing Media which must not be used for safety reasons:  
Water with a full water jet.  
Special Exposure Hazards arising from the substance itself, combustion products, resulting gases:  
Burning product sets free a complex mixture of gases and airborne particulates, including carbon monoxide, carbon dioxide and other noxious and inflammable gases and fumes.  
Fire Fighting Protective Equipment:  
Suitable respiratory protection with full face shield and positive air supply.  
Further Information:  
Do not let enter contaminated extinguishing water into the soil, groundwater or surface waters.

---

**6 Accidental Release Measures**

Personal Precautions:  
Wear personal protection clothing (see Chapter 8, "Personal Protection").  
Environmental Precautions:  
Do not allow to enter drains, sewers or watercourses.  
Clean-up Method:  
Adsorb spillages onto sand, earth or any suitable adsorbent material. Fill it into a clearly marked container.  
Waste should be disposed of as described in Chapter 13, "Disposal Considerations".

---

**\*7 Handling and Storage**

Handling:  
Observe the usual precautionary measures for chemicals.

Storage:  
Keep container tightly closed and dry.  
Keep separated from foodstuffs.  
Keep away from moisture.  
Keep away from strong oxidising agents and acids.  
Avoid direct sunlight and heat sources.  
Storage Temperature: 10 - 40°C

Protection against Fire and Explosion:  
Explosion protection is not required.

**\*8 Exposure Controls / Personal Protection**

For technical protective measures to limit exposure see also Chapter 7 "Handling and Storage".

Occupational Exposure Limits:  
The product contains no components with an Occupational Exposure Limit.

Personal Protection:

Respiratory Protection: Not required under normal working conditions.

Hand Protection: Protective gloves are recommended.  
Suitable materials for safety gloves (DIN EN 374-3):  
PVC- or rubber gloves; breakthrough time  $\geq$  480 min.  
Recommendation: Contaminated gloves should be disposed of.

Eye Protection: Chemical safety glasses. Full face shield if splashing is possible.

Skin Protection: Overall should be worn.

General safety and hygienic measures:  
Do not eat, drink or smoke during work.  
Store work clothes and street clothes separately.  
Wash hands before breaks and at end of work.  
Remove contaminated clothing. Contaminated clothing should be thoroughly cleaned before re-use.

Safety precautions for handling freshly moulded polyurethane parts: see Chapter 16.

**\*9 Physical and Chemical Properties**

tested in accordance with

Form:	liquid	
Colour:	grey	
Odour:	nearly odourless	
Pour Point:	not determined	
Flash Point:	> 200°C	DIN ISO 2592
Ignition Temperature:	> 300°C	DIN 51 794
Vapour Pressure:	< 1 hPa	(at 20°C)
Density:	approx. 1,54 g/cm <sup>3</sup>	(at 23°C) DIN 51 757
Viscosity:	approx. 8000 mPa·s	(at 23°C) Brookfield
Solubility in Water:	insoluble	(at 20°C)
pH value	not applicable	

**\*10 Stability and Reactivity**

General Information:  
If stored and handled in accordance with standard industrial practices no hazardous reactions are known.  
Pay attention to exothermic reaction with isocyanates (hardener component).

Material to Avoid:  
Strong oxidising agents, acids.

Hazardous Decomposition Products:  
No hazardous decomposition products when stored and handled correctly.

Date of Issue: 22.03.2004  
Replaced Data Sheet: May 2002  
Product Name: Joint Sealing Compound PU 4009 grey (Resin)

---

### \*11 Toxicological Information

No specific data available for this product.  
Information given is based on data on the components and on similarly composed products.

Acute Toxicity:

LD<sub>50</sub> oral, rat: An expected acute oral toxicity will be in the order of > 2000 mg/kg  
as derived from products with similar composition.

Irritating/Corrosive Effects:

Eye Contact: Weak irritation on the eyes possible.

Skin Contact: No irritation at the skin will be expected.

Sensitisation: No sensitising effect known.

---

### \*12 Ecological Information

No specific data available for this product.  
Information given is based on data on the components and on similarly composed products.

Bioaccumulation:

Unlikely, due to very low water solubility.

Degradability:

The degradation of the product is expected to be very slow.

Ecotoxicity:

The product is expected to be practically non-toxic to aquatic organisms; LC/EC<sub>50</sub> > 100 mg/l.

Further Information:

Do not allow to escape into waters, wastewater or soil.

Easily separable from water by filtration or sedimentation.

---

### 13 Disposal Considerations

The relevant EU Directives and local, regional and national regulations must be complied with.

It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste Catalogue. It is recommended that details be sorted out with the waste disposer responsible.

The waste can be disposed of in a suitable incinerator under compliance with the relevant legislation.

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), any product residue adhering to their walls has been rendered harmless, and the product and hazard labelling has been invalidated, they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry.

Containers must be recycled in compliance with national legislation and environmental regulations.

---

### \*14 Transport Information

Land transport RID/ADR: Class: --- PG: ---  
Transport by sea IMDG-Code: Code: --- UN-No.: --- PG: --- EmS: --- MPO: ---  
Air transport ICAO-TI/IATA-DGR: not restr.

Declaration for land shipment: ---

Declaration for sea shipment: ---

Declaration for shipment by air: ---

No dangerous cargo.

Keep away from foodstuffs.

---

### \*15 Regulatory Information

No labelling is required in accordance with the EEC directives.

R-Phrases: None.

S- Phrases: None.

National Regulation:

Water pollution class (WGK): 1 - slightly hazardous to water

WGK = Classification in accordance with the German Water Resources Act (VwVwS 1999-05-17)

---

Date of Issue: 22.03.2004  
Replaced Data Sheet: May 2002  
Product Name: Joint Sealing Compound PU 4009 grey (Resin)

Page 4 of 4

---

**\*16 Other Information**

Safety precaution for handling freshly moulded polyurethane parts:

Depending on the production parameters, any uncovered surfaces of polyurethane mouldings produced using this raw material may contain traces of substances (e.g. starting and reaction products, catalysts, release agents) with hazardous characteristics (e.g. harmful, irritating, corrosive, sensitising).

Skin contact with traces of these substances should be avoided. When demoulding or otherwise handling freshly moulded polyurethane parts, protective textile gloves should be worn as a minimum. Their palm and finger areas should preferably be coated on the outside with nitrile rubber, PVC or polyurethane.

The wearing of protective clothing (if necessary with long sleeves) suited to the conditions normally encountered when handling freshly moulded polyurethane parts is recommended.

This data sheet was prepared in accordance with the EU Directives.

In the Safety Data Sheet all chapters which have been changed since last edition are marked with an asterisk (\*) in front of the chapter number.

This Safety Data Sheet replaces all previous information.

Revised and valid from: see date of issue.

---

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.