

1 Identification of the substance and of the manufacturer**1.1 Product related**

1.1.1 Product description Spacer bar produced in hot-dip galvanized steel with chemically passivated surface.

1.1.2 Trade / brand name Ferrotech spacer bar.

1.2 Use of the product

Intended use The spacer bar is for use in the production of Insulating Glass.

1.3 Manufacturer related

1.3.1 Manufacturer Rolltech A/S, W. Brüelsvej 20
DK-9800 Hjørring

1.3.2 Phone / Fax + 45 96 23 33 43 / + 45 96 23 33 11

2 Composition / information on ingredients

2.1 Chemical composition Plain steel – no alloying elements.

2.2 Classification Not classified as dangerous material.

3 Hazard identification**3.1 Possible danger**

During handling (welding, cutting, grinding) the material can release dust, particles and smoke (P. 8 - threshold limiting value TLV). Working-up larger material surfaces can create chrome loaded dust, which is carcinogenic and can cause mucous membrane damage. Avoid repeatedly skin contact, as this can cause (chrome- related) eczema.

3.2 Other potential dangers for human and environment None.

4 First-aid measures**4.1 General**

First-aid measures are related to dust, particles and smoke.

The presence of specific measures at the working place is not relevant.

4.2 Inhalation Procure clean air and seek doctor.

4.3 Skin contact Wash with water.

4.4 Eye contact Rinse with water.

4.5 Ingestion Seek doctor.

4.6 Information for the doctor None.

5 Fire-fighting measures

5.1 Suitable extinguishing media The product is fireproof.

- 5.2 **Unsuitable extinguishing media** Melting point about 1.500 °C.
Not relevant.
- 5.3 **Special exposure hazard** None.
- 5.4 **Special protective equipment** None.

6 Accidental release measures

- 6.1 **Personal precautions** Not relevant.
- 6.2 **Environmental precautions** Not relevant.
- 6.3 **Methods for cleaning up material** Not relevant.

7 Handling and storage**7.1 Handling**

- 7.1.1 **Safe handling** Extraction is recommended at the working place to secure the TLV is not exceeded (P 8).
- 7.1.2 **Fire and explosive considerations** None.

7.2 Storage

- 7.2.1 **General storage condition / demands** None - regarding safety.
To avoid corrosion – avoid high humidity.

8 Exposure controls / personal protection**8.1 Indicative limit values and binding limit values.**

TLV

MAK/TRK (TRGS 900) DE

Term CAS no.	Limit value mg/m ³	Peak limit category	Note
General dust limit	6 A		MAK
Chrom (VI) – compound	0,05 E	4	TRK
Iron (II) – oxide 1345-25-1	6 A		MAK
Iron (III) – oxide 1309-37-1	6 A		MAK
Zinc oxide haze	5 A	4	MAK

8.2 Exposure controls

- 8.2.1 **Occupational exposure controls** The work place must fulfil the recommendation given P 8.2.1.1 – 8.2.2.
Drinking, eating, smoking at the work place is forbidden. Foods are not to be kept either.
- 8.2.1.1 **Respiratory protection** To avoid inhaling of dust use filter type P3.
- 8.2.1.2 **Hand protection** Use gloves to avoid direct skin contact.
- 8.2.1.3 **Eye protection** Use goggles to protect against dust and swarfs.
- 8.2.1.4 **Skin protection other than hand** None.
- 8.2.2 **Environmental exposure controls** None.

9 Physical and chemical properties**9.1 General information**

- 9.1.1 **Form** Solid.

9.1.2	Colour	Grey.
9.1.3	Odour	Odourless.
9.2	Important health, safety and environmental information	
9.2.1	Melting point	About 1.500 °C.
9.2.2	Density	7,7 – 7,8 g/cm ³ (20°C).
9.3	Other information	None.
10	Stability and reactivity	
10.1	Considerations	None.
11	Toxicological information	
11.1	Toxicological tests	
11.1.1	Acute toxicology – oral and inhalativ	No data available.
11.1.2	Irritation / cauterization	No data available.
11.1.3	Long term effect / influence	No data available.
12	Ecological information	
12.1	Ecotoxicity	Not relevant.
12.2	Mobility	Not relevant.
12.3	Persistence and degradability	Not relevant.
12.4	Bioaccumulation	Not relevant.
12.5	Other effects	Not relevant.
13	Disposal considerations	
13.1	Remaining material	Recycling of scrap is recommended.
14	Transport information	
14.1	General	There are no specific transport regulations.
14.2	Precautions	During transport the goods must be properly strapped.
14.3	Other considerations	None.
15	Regulatory information	
15.1	Distinctive mark	According to Ri 67/548/EWG.
15.2	Other regulations	None.
16	Other information	
16.1	Further information	The listed information is based upon the current information available.
16.2	Revision / changes	1. version Responsible department: Quality Assurance, Rolltech A/S