



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of product joke Fill R-90

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

Recommended intended purpose(s)

Rods and wires for welding

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

joke Technology GmbH
Asselborner Weg 14-16, D-51429 Bergisch Gladbach
Phone +49 (0) 22 04 / 8 39-0, Fax +49 (0) 22 04 / 8 39-60
E-Mail info@joke.de
Internet www.joke.de

Advice

Phone +49 (0) 22 04 / 8 39-0
Fax +49 (0) 22 04 / 8 39-60
E-mail (competent person):
safety-data-sheet@joke.de

1.4. Emergency telephone number

Emergency advice

Vergiftungs-I-Z. Freiburg
Phone +49 (0) 761 / 1 92 40
REACH and CLP UK CA Help Desk; Telephone: +44
171 635 9191

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Resp. Sens. 1	H334	
Skin Sens. 1	H317	
Carc. 1B	H350i	
STOT RE 1	H372	

Hazard statements for health hazards

H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H350i	May cause cancer by inhalation.
H372	Causes damage to organs through prolonged or repeated exposure.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07



GHS08

Signal word

Danger

Hazard statements for health hazards

H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H350i	May cause cancer by inhalation.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Storage

P405	Store locked up.
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Disposal

P501	Dispose of contents and containers in accordance with local, regional, national and international regulations.
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Hazardous ingredients for labeling

beryllium, cobalt, Kupfer (Cu), nickel, zirconium powder (pyrophoric)

2.3. Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

The components are not freely available in the article, but firmly connected in the form of an alloy.



Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
7440-02-0	231-111-4	nickel	0 - 2,2	Carc. 2, H351 / STOT RE 1, H372 / Skin Sens. 1, H317
7440-41-7	231-150-7	beryllium	0,15 - 2	Carc. 1B, H350i / Acute Tox. 2, H330 / Acute Tox. 3, H301 / STOT RE 1, H372 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Skin Sens. 1, H317
7440-48-4	231-158-0	cobalt	0 - 2,7	Resp. Sens. 1, H334 / Skin Sens. 1, H317 / Aquatic Chronic 4, H413
7440-67-7	231-176-9	zirconium powder (pyrophoric)	0 - 0,5	Water-react. 1, H260 / Pyr. Sol. 1, H250
7440-50-8	231-159-6	Kupfer (Cu)	96,3 - 99,5	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

As supplied, beryllium ceramic products in article form pose no immediate health risk. The indicated first aid measures refer to particles containing beryllium.

In the event of persistent symptoms receive medical treatment.

Take affected person into fresh air.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

Remove contaminated clothing immediately, even underwear and shoes.

In case of eye contact

Eye rinsing with water carefully while protecting unhurt eye.

Medical treatment by eye specialist.

In case of contact with eyes rinse thoroughly with water.

In case of ingestion

Do not induce vomiting.

If swallowed seek medical advice immediately and show the doctor packing or label.

Rinse out mouth thoroughly with water.

4.2. Most important symptoms and effects, both acute and delayed

Physician's information / possible symptoms

The following symptoms may occur:

Allergic symptoms

Physician's information / possible dangers

Danger of chronic berylliosis.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment (Advice to doctor)

Treat symptoms.

Symptoms may not occur until several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

Unsuitable extinguishing media

water

Water mist

Full water jet

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Use breathing apparatus if exposed to vapours/dust/aerosol.

For emergency responders

Ensure adequate ventilation.

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

In case of pollution of waters or sewers, inform the competent authorities.

6.3. Methods and material for containment and cleaning up

Take up mechanically and send for disposal.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid skin contact.

Provide good room ventilation even at ground level (vapours are heavier than air).

Provide suitable extraction at the processing machines.

General protective measures

Do not inhale dust/fumes/aerosols.

Hygiene measures

At work do not eat, drink, smoke or take drugs.

Wash soiled clothing immediately.



Keep away from food and drink.
Wash hands and skin before breaks and after work.

Advice on protection against fire and explosion

The product is not combustible.
The vapours of product are heavier than air.
At higher temperature (welding) product may decompose intensive and dangerous.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special measures required.

Advice on storage compatibility

Do not store with acids or alkalies.
Store and transport separate of food.
Do not store together with oxidizing agents.

Further information on storage conditions

Storage: dry

Information on storage stability

No information available.

Storage group No storage classification.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice

When processing the product, hazardous substances may be produced, mainly due to high temperatures and contact with air.

In Germany, the Technical Rule on Hazardous Substances is particularly important "Welding work" (TRGS 528) and the Technical Guideline for Conducting the Hazard Assessment for Activities with Hazardous Substances (TRGS 400).

8.2. Exposure controls

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Hand protection

Selection of the glove material considering the breakthrough times, permeation rates and the degradation.

Eye protection

safety goggles with side protection

Other protection measures

Impermeable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
solid

Colour
copper-coloured

Odour
odourless



Odour threshold

No information available.

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not applicable				
Boiling temperature / boiling range	not determined				
melting point	871,11 - 1071,11 °C				
Flash point	not applicable				
Vapourisation rate	not determined				
Flammable (solid)	No data available				
Flammability (gas)	not determined				
Ignition temperature	No data available				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	8,8 g/cm ³				
Vapour density	not determined				
Solubility in water					insoluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				

Oxidising properties

No information available.



Explosive properties

The product is not explosive.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

stable

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Substances to avoid

Alkali (lye), concentrated

Acid, concentrated

Oxidising agent, strong

10.6. Hazardous decomposition products

None, when used as intended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
Skin irritation	No data available			
Eye irritation	No data available			
Skin sensitization	non-sensitizing			
Sensitization respiratory system	No information available.			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No information available.
Reproduction-Toxicity				No information available.



Value	Species	Method	Validation
Carcinogenicity			Suspected of causing cancer if inhaled.
Specific target organ toxicity (single exposure) No information available.			
Specific target organ toxicity (repeated exposure) May cause damage to organs through prolonged or repeated exposure.			
Aspiration hazard no			
Additional information Based on available data, the classification criteria are not met.			

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

not applicable

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

General regulation

Product is not allowed to be discharged into the ground water or aquatic environment.

! SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

Remove in accordance with local official regulations.

! Recommendations for packaging

Packaging that cannot be cleaned should be disposed of like the product.

Dispose of according to official regulations.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-



	ADR/RID	IMDG	IATA-DGR
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-
14.6. Special precautions for user No information available.			
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.			
Land and inland navigation transport ADR/RID No dangerous goods as defined by these transport regulations.			
Marine transport IMDG No dangerous goods as defined by these transport regulations.			
Air transport ICAO/IATA-DGR No dangerous goods as defined by these transport regulations.			
Transport/further information No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.			

! SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

! Application restrictions

Regulation (EC) No 1907/2006, REACH Annex XVII Substances subject to the placing on the market and use of the authorization requirement.

Directive 2004/37 / EC: On the protection of workers from the risks related to exposure to carcinogens or mutagens at the workplace, as amended.

Beryllium (CAS 7440-41-7)

! Other regulations (EU)

Directive 2004/37 / EC: On the protection of workers from the risks related to exposure to carcinogens or mutagens at the workplace, as amended.

National regulations

Restriction of occupation

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

Observe employment restrictions for women of child-bearing age.

Water hazard class

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No information available.

15.2. Chemical Safety Assessment

A chemical safety assessment was not carried out.



SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein relates only to the designated product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.5

- H250 Catches fire spontaneously if exposed to air.
- H260 In contact with water releases flammable gases which may ignite spontaneously.
- H301 Toxic if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H350i May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H351 Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H372 Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H413 May cause long lasting harmful effects to aquatic life.