



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)
and Regulation (EU) No 2015/830

Revision date: 1/7/2016
Version: 5
Language: en-GB,IE
Date of print: 29/7/2016

WIKO REPAIR 90 Harz

Material number REP90

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

1.1 Product identifier

Trade name: WIKO REPAIR 90 Harz
This safety data sheet pertains to the following products:
REP90.S25: WIKO REPAIR 90 Harz, 25ml
REP90.K50: WIKO REPAIR 90 Harz, 50ml

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

General use: Adhesive

1.3 Details of the supplier of the safety data sheet

Company name: GLUETEC Industrieklebstoffe GmbH & Co. KG
Street/POB-No.: Am Biotop 8a
Postal Code, city: 97259 Greußenheim
Germany
WWW: www.gluetec.de
E-mail: info@gluetec.de
Telephone: +49 (0)9369-98 36-0
Telefax: +49 (0)9369-98 36-10
Dept. responsible for information:
Department QS, Telephone: +49 (0)9369-98 36-0, E-mail: technik@gluetec.de

1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Acute Tox. 4; H302 Harmful if swallowed.
Acute Tox. 4; H312 Harmful in contact with skin.
Acute Tox. 4; H332 Harmful if inhaled.
Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
Resp. Sens. 1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Carc. 2; H351 Suspected of causing cancer.
STOT SE 3; H335 May cause respiratory irritation.
STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure.



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2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements:	H302	Harmful if swallowed.
	H312	Harmful in contact with skin.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory irritation.
	H351	Suspected of causing cancer.
	H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P102	Keep out of reach of children.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Special labelling

EUH204 Contains isocyanates. May produce an allergic reaction.
Contains Poly(propylene glycol), tolylene 2,4-diisocyanate and Diphenylmethane disocyanate.

2.3 Other hazards

In case of strong heating: Danger of bursting container.
After contact with water: Formation of carbon dioxide, Danger of bursting container.
People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Diphenylmethane disocyanate-composition



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Hazardous ingredients:

Ingredient	Designation	Content	Classification
CAS 9057-91-4	Poly(propylene glycol), tolylene 2,4-diisocyanate	50 - 75 %	Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335.
EC No. - CAS 9016-87-9	Diphenylmethane disocyanate (isomers, homologues)	< 15 %	Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Resp. Sens. 1; H334. Skin Sens. 1; H317. Carc. 2; H351. STOT SE 3; H335. STOT RE 2; H373.

Full text of H- and EUH-statements: see section 16.

Additional information: Contains Talcum: The maximum workplace exposure limits are, where necessary, listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: First aider: Pay attention to self-protection!
- In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Seek medical attention.
- Following skin contact: Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Afterwards, consult an ophthalmologist immediately.
- After swallowing: Do not induce vomiting. If person is clearly conscious, have them drink two glasses of water to dilute ingested material. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation. Harmful if swallowed, in contact with skin or if inhaled. May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water fog, extinguishing powder, foam, carbon dioxide
In case of large fires: alcohol resistant foam

Extinguishing media which must not be used for safety reasons:

Full water jet



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5.2 Special hazards arising from the substance or mixture

Emits toxic fumes under fire conditions. In case of fire may be liberated: Isocyanate vapours, traces of hydrogen cyanide, nitrous fumes, carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: -

Reacts with water with development of heat, formation of gas. Danger of bursting container.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid exposure. Provide adequate ventilation. Keep unprotected people away.
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours/spray.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean the floor and all object contaminated by this material.

Additional information: 204 °C: Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Obtain special instructions before use.

Use local exhaust in the field of the processing equipment. Use caution when opening containers under pressure.

Avoid contact with skin and eyes. Do not breathe vapours. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Execute works under fume hood.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 18 °C and 30 °C. Store in a dry place.

Protect from exposure to heat, direct sunlight, and cold.

Do not allow the product to enter the ground.

Only trained personnel may be allowed to enter storage area.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.



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7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
14807-96-6	Talcum	Great Britain: WEL-TWA Ireland: 8 hours	1 mg/m ³ (respirable fraction) 0.8 mg/m ³ (respirable fraction)
		Ireland: 8 hours	10 mg/m ³ (inhalable fraction)
9016-87-9	Diphenylmethane disocyanate (isomers, homologues)	Great Britain: WEL-STEL	0.07 mg/m ³ (as -NCO)
		Great Britain: WEL-TWA	0.02 mg/m ³ (as -NCO)

8.2 Exposure controls

Provide adequate ventilation, and local exhaust as needed. Educate and train employees in safe use of product.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to EN 14387. In case of prolonged or repeated exposures: use self-contained breathing apparatus.

Hand protection: Protective gloves according to EN 374.
Glove material:
Polychloroprene (0.5 mm)
Butyl caoutchouc (butyl rubber) (0.5 mm)
Nitrile rubber (0.35 mm)
Fluoro rubber (0.4 mm)
Polyvinyl chloride (0.5 mm)
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Wash hands before breaks and after work. Immediately remove all contaminated clothing. Keep away from food, drink and animal feedingstuffs. Once a person is diagnosed as sensitized to the Product, no further exposure can be permitted. Safety shower and eye wash station should be easily accessible to the work area.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: viscous Colour: beige
Odour:	weak musty
Odour threshold:	No data available
pH value:	not applicable
Melting point/freezing point:	approx. 40 °C
Initial boiling point and boiling range:	> 300 °C
Flash point/flash point range:	> 200 °C
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): 0.40 Vol-%
Vapour pressure:	at 25 °C: ≤ 0.00001 hPa
Vapour density:	No data available
Density:	1.3 g/mL
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: Relative vapour density at 20 °C (air=1): 8,5 (MDI)

SECTION 10: Stability and reactivity

10.1 Reactivity

refer to 10.3

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

After contact with water: danger of polymerisation.
Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

10.4 Conditions to avoid

Protect from exposure to heat, direct sunlight, and cold. Protect from moisture contamination. Avoid generation of dust.



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10.5 Incompatible materials

Avoid contact with aluminium, brass, copper and zinc.
Avoid contact with acids, alcohol, amines, ammonia, bases, metallic compounds, humidity and strong oxidizing agents.

10.6 Hazardous decomposition products

Isocyanate vapours, traces of hydrogen cyanide, nitrous fumes, carbon monoxide
Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Acute Tox. 4; H302 = Harmful if swallowed.

Acute toxicity (dermal): Acute Tox. 4; H312 = Harmful in contact with skin.

Acute toxicity (inhalative): Acute Tox. 4; H332 = Harmful if inhaled.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Resp. Sens. 1; H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Carc. 2; H351 = Suspected of causing cancer.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): STOT SE 3; H335 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): STOT RE 2; H373 = May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

Symptoms

In case of inhalation:

Inhalation of vapours exceeding the allowable WEL-levels poses a health hazard: Irritation of mucous membranes and respiratory system, kidney and liver damage, as well as impairment of the central nervous system may result.

After contact with skin:

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

After eye contact: Corneal damage



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SECTION 12: Ecological information

12.1 Toxicity

Further details: No data available

12.2. Persistence and degradability

Further details: Forms carbon dioxide and turns into a hard and insoluble by-product (poly urea) on the water's edge. This reaction is intensified by surface-active substances (e.g. liquid soaps) or water soluble solvents. Based upon current knowledge, poly urea is inert and will not decompose.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances.
MFSU = manufacture, formulation, supply and use
* = Evidence for disposal must be provided.

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.

Additional information

Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
not applicable



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14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

14.5 Environmental hazards

Marine pollutant:

no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code:

-

No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content



Hazard statements:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P102	Keep out of reach of children.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.



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15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed.

H312 = Harmful in contact with skin.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H332 = Harmful if inhaled.

H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 = May cause respiratory irritation.

H351 = Suspected of causing cancer.

H373 = May cause damage to organs through prolonged or repeated exposure.

EUH204 = Contains isocyanates. May produce an allergic reaction.

Reason of change: General revision

Date of first version: 13/9/2013

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.