

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

### 1.1 Product identifier

Trade name: 2-K Huf- u. Klauenkleber Part B

This safety data sheet pertains to the following products:  
WK-53S20B = 2-K Huf- u. Klauenkleber Part B

UFI: 0HVN-T8GC-QG0V-XQR4

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

General use: Two-component glue  
Reserved for industrial and professional use.

### 1.3 Details of the supplier of the safety data sheet

Company name: WEKEM GmbH  
Street/POB-No.: Emilie-Winkelmann-Str. 2  
Postal Code, city: 59192 Bergkamen  
Germany

WWW: [www.wekem.de](http://www.wekem.de)  
E-mail: [vertrieb@wekem.de](mailto:vertrieb@wekem.de)  
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Department responsible for information:  
Product Safety Department:  
Telephone: +49 (0) 23 89 40 30-10  
E-mail: [vertrieb@wekem.de](mailto:vertrieb@wekem.de)

### 1.4 Emergency telephone number

**GIZ-Nord, Göttingen**  
**Telephone: +49 (0)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; 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.

**2-K Huf- u. Klauenkleber Part B**

Material number WK-53S20B

Page: 2 of 11

## 2.2 Label elements

### Labelling (CLP)



Signal word:

**Danger**

Hazard statements:

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:

P201	Obtain special instructions before use.
P260	Do not breathe fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

EUH204	Contains isocyanates. May produce an allergic reaction.
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Text for labelling: **Contains:**  
Diphenylmethane diisocyanate (isomers, homologues)

## 2.3 Other hazards

Persons with over-sensitive breath ways (e.g. asthma, chronic bronchitis) are not allowed to use the product due to safety regulations.

Vapours and aerosols are the main dangers to the respiratory tract.

Respiratory symptoms may still occur several hours after overexposure.

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, 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: Mixture of the substance mentioned below with non-hazardous additions.

**2-K Huf- u. Klauenkleber Part B**

Material number WK-53S20B

Page: 3 of 11

Hazardous ingredients:

Identifiers	Designation Classification	Content
list no. 618-498-9 CAS 9016-87-9	Diphenylmethane diisocyanate (isomers, homologues) Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Resp. Sens. 1; H334. Skin Sens. 1A; H317. Carc. 2; H351. STOT SE 3; H335. STOT RE 2; H373.	55 - 100 %

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

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General information:	First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse.
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. If breathing is irregular or stopped, administer artificial respiration. Immediately get medical attention.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Immediately get medical attention.
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. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:	Rinse mouth and drink large quantities of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately get medical attention.

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

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

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

Product causes irritation of respiratory tracts and may possibly increase sensitivity of skin and respiratory tracts. Treatment of the acute irritation or bronchial narrowing is mainly symptomatic. Depending on the scale of exposition, as well as aches and pains resulting, long-term medical care may be required.  
Symptoms of poisoning can only emerge after several hours; medical supervision is therefore essential for at least 48 hours.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media:

Extinguishing powder, carbon dioxide, Water spray jet.

Extinguishing media which must not be used for safety reasons:

Full water jet

## 5.2 Special hazards arising from the substance or mixture

On heating or in case of fire toxic gases may form.

In case of fire may be liberated: Isocyanate vapours, traces of hydrogen cyanide, nitrous fumes, carbon monoxide, carbon dioxide.

Do not inhale explosion and combustion gases.

## 5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

Use fine water spray to cool endangered containers.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid exposure. Provide adequate ventilation. Avoid contact with the substance.

Do not breathe fume/gas/mist/vapours/spray. Keep unprotected people away. Wear appropriate protective equipment.

Take off immediately all contaminated clothing and wash it before reuse.

In case of inadequate ventilation wear respiratory protection.

## 6.2 Environmental precautions

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

In case of release, notify competent authorities.

## 6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Thoroughly clean surrounding area.

Additional information:

Special danger of slipping by leaking/spilling product.

## 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.

Provide adequate ventilation, and local exhaust as needed.

Vent high concentrations of aerosols and/or fumes from the work area. Airflow should move away from persons. The effectiveness of the facilities must be checked at regular intervals.

Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse.

Avoid contact with skin and eyes. Do not breathe fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
When handling larger quantities, take precautionary measures against electrostatic charging.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.  
Keep container dry. Keep only in the original container.  
Protect from heat and direct sunlight.  
Store containers in upright position.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

## 7.3 Specific end use(s)

No information available.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area. Execute works under fume hood. Airflow should move away from persons. The effectiveness of the facilities must be checked at regular intervals.

## Personal protection equipment

### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. In case of inadequate ventilation wear respiratory protection.

Recommendation: Use combination filter type A/P according to EN 14387. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Protective gloves according to EN ISO 374:1.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN ISO 16321-1:2022.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Obtain special instructions before use.  
Take off immediately all contaminated clothing and wash it before reuse.  
Avoid contact with skin and eyes. Do not breathe fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.  
Work place should be equipped with a shower and an eye rinsing apparatus.

### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Copper-coloured
Odour:	No data available
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	> 300 °C
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	205 °C
Decomposition temperature:	No data available
pH:	No data available
Viscosity, dynamic:	4,000 mPa*s
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	at 20 °C: 0.01 Pa
Density:	1.2 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	> 600 °C
Evaporation rate:	No data available
Additional information:	No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames. Protect from direct sunlight.  
Protect from moisture contamination.

### 10.5 Incompatible materials

No data available

## 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

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

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

Serious 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: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

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: Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

Endocrine disrupting properties:

No data available

Other information:

Information about Diphenylmethane diisocyanate, isomers, homologues:

LD50, oral: > 5,000 mg/kg

LD50, dermal: > 9,400 mg/kg

LC50, inhalative: 0.49 mg/L/4h

## Symptoms

Product causes irritation of respiratory tracts and may possibly increase sensitivity of skin and respiratory tracts. Delayed occurrence of discomfort and development of hypersensitivity are possible even at low concentrations of isocyanates. Susceptible persons may develop ailments and allergic reactions with some delay.

In case of inhalation:

Cough, dizziness, headache, nausea, vomiting, laryngitis, asthma. Danger of lung irritation / lung oedema. Inflammation of the respiratory organs possible.

In case of ingestion: Abdominal pain, nausea, vomiting.

After contact with skin:

Skin rash, oedema (swelling), scales. Repeated exposure may cause skin dryness or cracking, due to defatting properties.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

## SECTION 12: Ecological information

### 12.1 Toxicity

Further details: No data available

### 12.2 Persistence and degradability

Further details: No data available

### 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 Endocrine disrupting properties

No data available

### 12.7 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

\* = Evidence for disposal must be provided.



Recommendation: Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.  
Do not empty into drains.

### Package

Waste key number: 15 01 10\* = packaging containing residues of or contaminated by dangerous substances  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.  
Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR:

not applicable

ADN:

ID 9004

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

ADN:

ID 9004, DIPHENYLMETHANE-4,4'-DIISOCYANATE mixture

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

ADN:

Class 9, Code: M12

### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

### 14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG:

no

### 14.6 Special precautions for user

#### Inland waterway craft (ADN)

Hazard label:

-

Transport permitted:

T

Equipment necessary:

PP

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### National regulations - EC member states

Volatile organic compounds (VOC):

0 % by weight

#### Labelling of packaging with <= 125mL content



Signal word:

**Danger**

Hazard statements:

H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 Suspected of causing cancer.  
EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

P201 Obtain special instructions before use.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to hazardous or special waste collection point.

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 74, 75

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

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

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.

Date of first version: 14/9/2023

Department issuing data sheet:

see section 1: Department responsible for information

Abbreviations and acronyms:

Acute Tox.: Acute toxicity  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
AS/NZS: Australian Standards/New Zealand Standards  
Carc.: Carcinogenicity  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Irrit.: Eye irritation  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
Resp. Sens.: Sensitisation to the respiratory tract  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Irrit.: Skin irritation  
Skin Sens.: Skin sensitisation  
STOT RE: Specific target organ toxicity - repeated exposure  
STOT SE: Specific target organ toxicity - single exposure  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

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.

