



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.12.2023

Version number 5 (replaces version 4)

Revision: 18.12.2023

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

- **1.1 Product identifier**
- **Trade name:** fermacell Floor Glue -5
- **UFI:** VMEQ-HQEU-4A7X-5KJJ
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Adhesive
- **Application of the substance / the mixture** Construction chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
James Hardie Europe GmbH
Bennigsen-Platz 1
40474 Düsseldorf
Deutschland
Tel. 0800 - 5235665,
Fax: 088 - 5356578
E-mail: SDB@jameshardie.com
- **Distributor**
James Hardie UK7 The Priory, Old London Road, Canwell, Sutton Coldfield B75 5SH +44 (0) 121 311 3480
- **Further information obtainable from:** SDB@jameshardie.com
- **1.4 Emergency telephone number:**
Giftinformationszentrum-Nord (GIZ-Nord) der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein, Universitätsmedizin Göttingen, Georg-August-Universität, Robert-Koch-Str. 40, D-37075 Göttingen. Telefon: +49 (0)551 19240 (24 Stunden am Tag)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2 H351 Suspected of causing cancer.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.

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· Hazard pictograms



GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomers and homologues

· Hazard statements

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

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

· Precautionary statements

P102 Keep out of reach of children.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P285 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

As from 24 August 2023 adequate training is required before industrial or professional use.

EUH204 Contains isocyanates. May produce an allergic reaction.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

| | | |
|--|---|------|
| CAS: 9016-87-9 EC number: 618-498-9 | diphenylmethanediisocyanate, isomers and homologues ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 % | <58% |
|--|---|------|

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Take affected persons out of danger area and lay down.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

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

Headache.

Difficulties in breathing

Coughing.

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

Symptomatic treatment (detoxification, maintenance of vital functions), no specific antidote is known. To prevent pulmonary oedema from severe exposure: corticosteroid containing dosing aerosol.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Foam.

Fire-extinguishing powder.

Carbon dioxide.

Water spray.

Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: Water with full jet.

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NO_x).

Carbon monoxide (CO).

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

Isocyanates

· 5.3 Advice for firefighters

· Protective equipment:

Wear fully protective suit.

Mouth respiratory protective device.

· Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Keep people at a distance and stay on the windward side.

Wear protective clothing.

Use respiratory protective device against the effects of fumes / dust / aerosol.

Ensure adequate ventilation.

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- **6.2 Environmental precautions:** Do not allow to enter sewers / surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
For large amounts: pump off the product.
For residues: pick up with absorbent material (eg sand, sawdust, universal binders).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Provide good ventilation.
Avoid contact with respiratory system, skin and eyes. See also section 8.
At work do not eat, drink or smoke.
Protect from moisture.
Ensure good ventilation / exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Keep away from water and moisture.
- **Information about storage in one common storage facility:**
Store away from water.
Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No data available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

| | |
|-----|--|
| WEL | Short-term value: 0.07 mg/m ³ |
| | Long-term value: 0.02 mg/m ³ |
| | Sen; as -NCO |

· **Regulatory information** WEL: EH40/2020

· **DNELs**

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

| | | |
|------------|------|--|
| Oral | DNEL | 20 mg/kg/day (General population, consumers) |
| Dermal | DNEL | 0.05 mg/kg/day (General population, consumers) |
| Inhalative | DNEL | 0.05 mg/m ³ (General population, consumers) 0.05 mg/m ³ (Workers) |

· **PNECs**

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

| | |
|--------------|----------|
| (freshwater) | 1 mg/l |
| (sea water) | 0.1 mg/l |
| (soil) | 1 mg/kg |

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- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see section 7.

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Do not breathe vapours.

Exposure for pregnant women must be strictly avoided.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A1.

EN 14387.

People suffering from respiratory tract and skin hypersensitivity (asthma, chronic bronchitis and chronic skin disease) should avoid contact with the product.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product / the substance / the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

Butyl rubber, BR

Chloroprene rubber, CR

EN 374.

Nitrile rubber.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

≥ 480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection**

EN 166



Tightly sealed goggles

- **Body protection:**

Protective work clothing.

Protective shoes (according to EN ISO 20346).

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Liquid

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| | |
|---|--|
| · Colour: | Brown |
| · Odour: | Product specific |
| · Odour threshold: | Not determined |
| · Melting point/freezing point: | Not determined |
| · Boiling point or initial boiling point and boiling range | Not determined |
| · Flammability | Not applicable |
| · Lower and upper explosion limit | |
| · Lower: | Not determined |
| · Upper: | Not determined |
| · Flash point: | Not applicable |
| · Auto-ignition temperature: | Not specified |
| · Decomposition temperature: | Not determined |
| · pH | Not applicable |
| · Viscosity: | |
| · Kinematic viscosity | Not determined |
| · Dynamic at 21 °C: | 6 000 - 8 000 mPas |
| · Solubility | |
| · water: | Reacts with water |
| · Partition coefficient n-octanol/water (log value) | Not determined |
| · Vapour pressure: | Not determined |
| · Density and/or relative density | |
| · Density: | 1.12-1.15 g/cm ³ |
| · Relative density | Not determined |
| · Vapour density | Not determined |
| · Relative gas density | Not determined. |
| · 9.2 Other information | |
| · Appearance: | |
| · Form: | Liquid |
| · Important information on protection of health and environment, and on safety. | |
| · Ignition temperature: | Product is not selfigniting |
| · Explosive properties: | Product does not present an explosion hazard |
| · Solvent content: | |
| · VOC (EC) | <0.00 % |
| · Change in condition | |
| · Evaporation rate | Not determined |
| · Information with regard to physical hazard classes | |
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | Void |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Void |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |

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- **Corrosive to metals** Void
- **Desensitised explosives** Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity

No hazardous reactions if the regulations / notes for storage and handling of the product will be respected.

· 10.2 Chemical stability

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions

The product produces carbon dioxide in reaction with water. Risk of burst in closed containers due to increased pressure.

· 10.4 Conditions to avoid

Avoid moisture from the air - release of CO₂, in closed containers can increase in pressure, danger of bursting containers.

Temperature <15 °C

· 10.5 Incompatible materials:

Strongly reacts with water and other substances containing an active hydrogen atom.

Strong acids and bases.

Amines, alcohols and water

· 10.6 Hazardous decomposition products:

Hazardous decomposition products are not known if the regulations/ guidelines for storage and handling of the product are followed.

SECTION 11: Toxicological information

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

· **Acute toxicity**

Harmful if inhaled.

· **LD/LC50 values relevant for classification:**

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

| | | |
|--------|------|--------------------------------|
| Oral | LD50 | >10000 mg/kg (rat) (OECD401) |
| Dermal | LD50 | >9400 mg/kg (rabbit) (OECD402) |

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

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

May cause an allergic skin reaction.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity**

Suspected of causing cancer.

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

· **STOT-single exposure**

May cause respiratory irritation.

· **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Additional toxicological information:**

· **Sensitisation** Sensitizing mixture.

· **Repeated dose toxicity** Repeated inhalation of even small doses can cause lung damage.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

| | |
|------|-------------------------------------|
| EC50 | 1640 mg/l (algae) |
| | >1000 mg/l (daphnia) (OECD202) |
| | >100 mg/l (Sedimentation) (OECD209) |
| LC50 | >1000 mg/l (fish) (OECD) |

· 12.2 Persistence and degradability

Not easily biodegradable

· 12.3 Bioaccumulative potential

Does not accumulate in organisms.

· 12.4 Mobility in soil

No data available.

· 12.5 Results of PBT and vPvB assessment

· PBT:

Not applicable.

· vPvB:

Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Remove in accordance with applicable legislation.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, ADN, IMDG, IATA

Not applicable

· 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA

Not applicable

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class

Not applicable

· 14.4 Packing group

· ADR, IMDG, IATA

Not applicable

· 14.5 Environmental hazards:

· Marine pollutant:

No.

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- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:** Not classified as dangerous under transport regulations.
- **UN "Model Regulation":** Not applicable

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 56, 74
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
- None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
- None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
- None of the ingredients is listed.
- **Regulation (EC) No 273/2004 on drug precursors**
- None of the ingredients is listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
- None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - 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.
- **Recommended restriction of use** Information in the appropriate technical data sheet of product.
- **Version number of previous version:** 4
- **Abbreviations and acronyms:**
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)

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VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

GB