

SAFETY DATA SHEET

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

Revision date: 8/6/2022
Version: 1.0
Language: en-GB,IE
Date of print: 8/6/2022

FloorBridge Finish color ca. RAL 7001 Komponente B

Material number RAL 7001 Komponente B

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

1.1 Product identifier

Trade name: FloorBridge Finish color ca. RAL 7001 Komponente B

UFI: XH00-E04V-C00C-T9JP

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

General use: Curing agent
Restricted to professional users

1.3 Details of the supplier of the safety data sheet

Company name: FloorBridge® International GmbH

Street/POB-No.: Gewerbepark 21

Postal Code, city: AT-4101 Feldkirchen an der Donau

WWW: www.floorbridge.com

E-mail: office@floorbridge.com

Telephone: +43 7233 200 30

Department responsible for information:

Telephone: +43 7233 200 30, Email: office@floorbridge.com

1.4 Emergency telephone number

National Poisons Information Service (Birmingham Unit)

Telephone: 844 892 0111

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.

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

STOT SE 3; H335 May cause respiratory irritation.

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements:	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.

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Precautionary statements:

P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye 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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Special labelling

EUH204	Contains isocyanates. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Text for labelling:

Contains Hexamethylene-1,6-di-isocyanate homopolymer; HDI oligomers, allophanate
As from 24 August 2023 adequate training is required before industrial or professional use.

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.
Respiratory symptoms may still occur several hours after overexposure.
Vapours and aerosols are the main dangers to the respiratory tract.
Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119987575-18-xxxx list no. 939-657-1	HDI oligomers, allophanate	< 50 %	Acute Tox. 4; H332. Skin Irrit. 2; H315. Skin Sens. 1; H317. STOT SE 3; H335.
REACH 01-2119488934-20-xxxx list no. 931-297-3 CAS 28182-81-2	Hexamethylene- 1,6-di-isocyanate homopolymer	< 50 %	Acute Tox. 4; H332. Skin Sens. 1; H317. STOT SE 3; H335.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
Symptoms may occur with delay.

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In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of respiratory difficulties seek medical attention.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. 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. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Harmful if inhaled. Causes skin irritation. May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically (decontamination, vital functions). No specific antidote known. In case of inhalation, to prevent pulmonary oedema, initiate inhalative cortisone therapy as early as possible (e.g. every 10 minutes 5 strokes of a cortisone containing aerosol dosing spray); administer codeine against dry coughing.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

carbon dioxide (CO₂), alcohol resistant foam, dry extinguishing powder, 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

Combustible. Dense black smoke occurs during fire. In case of fire may be liberated: toxic gases/vapours, cyanides, nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

With air, vapours form potentially explosive mixtures, which are heavier than air.

5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

Hazchem-Code: -

Cool exposed containers with water spray, but avoid contact of the substance with water.

Formation of carbon dioxide: Danger of bursting container.

Do not allow fire water to penetrate into surface or ground water.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing mist/vapours/spray. Avoid contact with the substance.
If possible, eliminate leakage. Provide adequate ventilation.
Wear appropriate protective equipment. Use a breathing protection against vapours/aerosol. Keep unprotected people away.
Take off contaminated clothing and wash it before reuse.

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

Cover with moist liquid binding material (e.g. sand, chemical agent with calcium silicate hydrate). After approximately 1 hour, mechanically collect in an open waste container (CO₂ build-up).
keep moist and allow to stand in a secure area for 7 to 14 days.
Add the decontaminant to the remnants and let stand for several days in a non-sealed container until no further reaction is observed. Once reaction is finished, close container and dispose of.
Never return spills in original containers for re-use.

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: Avoid breathing mist/vapours/spray.
Provide adequate ventilation, and local exhaust as needed.
Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Airflow should move away from persons.
Take off contaminated clothing and wash it before reuse. Avoid contact with skin and eyes.
Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

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

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

keep away from Acids and bases.

Further details: Carbon dioxide formation with influence of water or air humidity.

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.

DNEL/DMEL: Information about Hexamethylene-1,6-di-isocyanate
DNEL workers local, short-term, inhalative: 1 mg/m³
DNEL workers local, long-term, inhalative: 0.5 mg/m³

PNEC: Information about Hexamethylene-1,6-di-isocyanate
PNEC Water (freshwater): 0.127 mg/L
PNEC Water (marine water): 0.0127 mg/L
PNEC Water (intermittent release): 1.27 mg/L
PNEC sewage treatment plant: 38.28 mg/L
PNEC sediment (freshwater): 266,701 mg/kg dw
PNEC sediment (marine water): 266,700 mg/kg dw
PNEC soil: 531,830 mg/kg dw

8.2 Exposure controls

Indoor use: Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Outdoor use: Provide good ventilation.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Use respiratory protection whenever ventilation is inadequate.
Respiratory protection must be worn whenever the WEL levels have been exceeded.
Use combination filter type A2/P2 according to EN 14387.

Hand protection: Protective gloves according to EN 374.
Glove material: Butyl caoutchouc (butyl rubber)
Breakthrough time: \geq 480 min
Layer thickness: \geq 0.5 mm
Glove material: Fluororubber (Viton)
Breakthrough time: \geq 480 min
Layer thickness: \geq 0.4 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.

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General protection and hygiene measures:

Avoid breathing mist/vapours/spray.
Airflow should move away from persons.
Take off contaminated clothing and wash it before reuse. Avoid contact with skin and eyes.
Persons with over-sensitive breath ways (e.g. asthma, chronic bronchitis) are not allowed to use the product due to safety regulations. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

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: liquid Colour: see Product description
Odour:	characteristic
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	> 100 °C
Evaporation rate:	No data available
Flammability:	Combustible
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 20 °C: 1.10 - 1.20 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, dynamic:	at 23 °C: 600 - 1000 mPa*s
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reacts with Water, alcohols, amines and bases.

Formation of Carbon dioxide. Danger of bursting of closed cans. Heating will lead to pressure increase: Danger of bursting and explosion.

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

Acids, Alkalis, Water, Amines, Alcohol.

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

ATEmix (calculated): ATE > 2000 mg/kg.

Acute toxicity (dermal): Lack of data.

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

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

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

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

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

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): Lack of data.

Aspiration hazard: Lack of data.

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Other information: Information about Hexamethylene-1,6-di-isocyanate homopolymer
LC50 Rat, inhalative, female, mist/dust: > 0.39 mg/L/4h (OECD 403).
Information about HDI oligomers, allophanate
LC50 Rat, inhalative, male, mist/dust: 0.264 mg/L/4h (OECD 403).
LC50 Rat, inhalative, female, mist/dust: > 0.314 mg/L/4h (OECD 403).

Symptoms

In case of a prolonged contact tanning and irritating effects may occur.
Persons with over-sensitive breath ways (e.g. asthma, chronic bronchitis) are not allowed to use the product due to safety regulations.
Respiratory symptoms may still occur several hours after overexposure.
Vapours and aerosols are the main dangers to the respiratory tract.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Hexamethylene-1,6-di-isocyanate
Acute fish toxicity
LC50 Danio rerio (zebrafish): >100 mg/L/96h (OECD 203)
Acute Daphnia toxicity
EC50 Daphnia magna (Big water flea): >127 mg/L/48h (OECD 202)
algae toxicity
EC50 Scenedesmus subspicatus: >1000 mg/L/72h (OECD 201)
Bacteria toxicity
activated sludge EC20 >880 mg/L/3h (OECD 209)
Information about HDI oligomers, allophanate
Acute fish toxicity
LC50 Danio rerio (zebrafish): >100 mg/L/96h (OECD 203)
Acute Daphnia toxicity
EC50 Daphnia magna (Big water flea): >100 mg/L/48h (OECD 202)
algae toxicity
ERC50 Scenedesmus subspicatus: >100 mg/L/72h (OECD 201)
Bacteria toxicity
activated sludge EC10 >1000 mg/L/3h (OECD 209)

12.2 Persistence and degradability

Further details: Information about Hexamethylene-1,6-di-isocyanate
Biodegradability: 1 %/28 d. (OECD 302C).
Not easily degradable.
Forms carbon dioxide and turns into a hard and insoluble by-product (poly urea) on the water's edge. 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

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12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 05 01* = Waste isocyanates
* = Evidence for disposal must be provided.

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

Package

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

Additional information

Do not allow product to reach sewage system.

SECTION 14: Transport information

14.1 UN number

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

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.

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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

Volatile organic compounds (VOC):

0 % by weight = 0 g/L

Labelling of packaging with <= 125mL content



Signal word:

Warning

Hazard statements:

H317

May cause an allergic skin reaction.

EUH204

Contains isocyanates. May produce an allergic reaction.

EUH210

Safety data sheet available on request.

Precautionary statements:

P261

Avoid breathing mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection.

P302+P352

IF ON SKIN: Wash with plenty of water/soap.

P362+P364

Take off contaminated clothing and wash it before reuse.

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

Further information

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

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H332 = Harmful if inhaled.

H335 = May cause respiratory irritation.

EUH204 = Contains isocyanates. May produce an allergic reaction.

EUH210 = Safety data sheet available on request.

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Abbreviations and acronyms:

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
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
EC50: Effective Concentration 50%
EN: European Standard
EQ: Excepted quantities
EU: European Union
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
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
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
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

Date of first version: 8/2/2022

Department issuing data sheet

Contact person: see section 1: Department responsible for information

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.