

1 Identification of the substance/mixture and of the company/undertaking**Product identifier****Trade name:****Rigips Aquaroc joint adhesive****Relevant identified uses of the mixture and uses advised**

Adhesive

Details of the supplier of the Safety Data Sheet**Manufacturer/Supplier:**Saint-Gobain Rigips GmbH
Schanzenstraße 84
D-40549 Düsseldorf
Germany**National contact:**Saint-Gobain Rigips GmbH - Ladenburg Development Center – Gypsum Development
Dr.-Albert-Reimann-Straße 20
D – 68526 Ladenburg
+49(0)621-4701691
Email forschung-entwicklung@rigips.de**Emergency telephone number:**

Tel +49 (0)621 4701691 (only at daily working-times)

European Emergency Number: 112

2 Hazards identification**2.1 Classification of the substance or mixture****2.1.1 Classification according to regulation (EC) Nr. 1272/2008**

Hazard class	Hazard categorie	Hazard statement
Eye Irrit. STOT SE	2 3	H319-Causes serious eye irritation H335-May cause respiratory irritation
Skin Irrit.	2	H315-Causes skin irritation
Resp. Sens.	1	H334- May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin Sens. STOT RE	1 2	H317-May cause an allergic skin reaction H373-May cause damage to organs through prolonged or repeated exposure
Carc.	2	H351-Suspected of causing cancer.

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) 1272/2008 (CLP)



Danger

Hazard-determining components of labelling:
Diphenylmethanediisocyanate, isomeres and homologues

Hazard statements

H319-Causes serious eye irritation

H335-May cause respiratory irritation

H315-Causes skin irritation

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

H317-May cause an allergic skin reaction

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

H351-Suspected of causing cancer.

Precautionary statements:

P284-In case of inadequate ventilation wear respiratory protection

P280-Wear protective gloves/protective clothing and eye protection/face protection

P260-Do not breathe vapours or spray

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

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

P501-Dispose of contents and container in accordance with legal regulations

Phrases in case of sale to the general public

Persons already sensitised to diisocyanates may develop allergic reactions when using the product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

The product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

P405 Keep locked up

Advised precautionary statements:

Keep out of reach of children

Additional information:

EUH204-Contains isocyanates. May produce an allergic reaction

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

3 Composition/information on ingredients

Chemical characterization: mixtures

Description: adhesive containing a polyurethane prepolymer based on diphenylmethanediisocyanate

CAS: 9016-87-9	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	10 – 20 %
CAS: 26761-40-0 EINECS: 247-977-1 Reg.nr.: 01-2119422347-43	Diisodecyl phthalate Substance with a Community workplace limit	2 – 5 %
CAS: 872-50-4 EINECS: 212-828-1 Reg.nr.: 01-2119472430-46	N-methyl-2-pyrrolidone ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	2 – 5 %
CAS: 6425-39-4 EINECS: 229-194-7	2,2'-dimorpholinyl-diethyl ether ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2,5 %
CAS: 64742-47-8 EINECS: 265-149-8 Reg.nr.: 01-2119456620-43	Distillates (petroleum), light ⚠ Asp. Tox. 1, H304	< 2,5 %
CAS: 1305-78-8 EINECS: 215-138-9 Reg.nr.: 01-2119475325-36	Calcium oxide ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	< 1,5 %

SVHC	
872-50-4	N-methyl-2-pyrrolidone

Additional information

Contains 4,4'-methylenediphenyl diisocyanate (CAS: 101-68-8, EINECS: 202-966-0, Reg.nr.: 01-2119457014-47)

For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

After inhalation:

Supply with fresh air.
If required, provide artificial respiration
Keep patient warm
Consult doctor if symptoms persist
In case of unconsciousness; place patient stably in side position for transportation

After skin contact:

Immediately wash with water and soap and rinse thoroughly

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse mouth out with water and then drink plenty of water.
Do not induce vomiting – call for medical help immediately

4.2 Most important symptoms and effects, both acute and delayed

Nausea, breathing difficulty, dizziness, headache, coughing

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

CO₂
Extinguishing powder or water spray

Unsuitable extinguishing media:

Water with full jet

5.2 Special hazards arising from the substance or mixture:

In case of fire the following can develop:
carbon monoxide (CO), nitrogen oxides (NOx)
In certain fires conditions, traces of other toxic gases cannot be excluded, e.g.: hydrogen cyanide (HCN), isocyanates

5.3 Advice for firefighters:

Protective equipment: wear self-contained respiratory protective device

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product
Ensure adequate ventilation
Keep away from ignition sources
Use respiratory protective device against the effects of fumes/dust/aerosol

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course

6.3 Methods and material for containment and cleaning up:

Pick up mechanically
Send for recovery or disposal in suitable receptacles
Do not close them (reaction with water forming carbon dioxide)

6.4 Reference to other sections

See Section 8 for information on personal protection equipment
See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace

Open and handle receptacle with care

Information about protection against explosions and fires

Keep ignition sources away – do not smoke

Protect against electrostatic charges

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles.

Store in cool location

Provide ventilation for receptacles

Information about storage in one common storage facility: not required

Further information about storage conditions

Keep receptacles tightly sealed

Protect from humidity and water.

7.3 Specific end use(s)

Not further relevant information available

8 Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical systems: no further data, see item 7

Components with limit values that require monitoring at the workplace

9016-87-9 Diphenylmethane diisocyanate, isomeres und homologues

WEL Short term value: 0,07 mg/m³; WEL Long term value: 0,02 mg/m³

Sen; as-NO

26761-40-0 diisodecyl phtalate

WEL Long term value: 5mg/m³

872-50-4 N-methyl-2-pyrrolidone

WEL Short term value: 80mg/m³, 20ppm; WEL Long term value: 40mg/m³, 10ppm

SK

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2 %

RCP-TWA Long term value: 1200mg/m³

VME Long term value: 1200 mg/m³

Additional Occupational Exposure Limit Values for possible hazards during processing:

101-68-8 4,4'-methylenediphenal diisocyanate

WEL Short term value: 0,07mg/m³; WEL Long term value: 0,02 mg/m³

Sen; as-NCO

Additional information: the list that were valid during the creation were used as basis

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures:

Clean skin thoroughly immediately after handling the product

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work

Do not inhale gases/fumes/aerosols

Do not eat, drink, smoke while working

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case on intensive or longer exposures use respiratory protective device that is independent of circulating air.

Short term filter device: filter AB

Protection of hands:

PVC gloves

The selection of 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 cannot be calculated in advance and has therefore to be checked prior to the application.

Eye protection: tightly sealed goggles

Body protection: protective work

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Pasty
Colour:	Beige
Odour:	Without
Odour treshold:	Not applicable
pH-value:	Not applicable
Melting point:	Not determined
Boiling point:	> 190 °C
Flash point:	> 70 °C
Relative evaporation rate (butylacetate=1)	Not applicable
Flammability (solid, gas):	The product is not flammable
Explosion limits:	Lower (0,6 % vol) upper (9,5 %)
Vapour pressure:	Not applicable
Relative vapour density at 20 °C:	Not applicable
Relative density:	Not applicable
Density at 20°C:	1,38
Solubility:	Water: Not miscible or difficult to mix
Log Pow:	Not applicable
Self ignition temperature:	> 200 °C
Decomposition temperature:	> 140 °C
Viscosity, dynamic:	400000 mPa.s (at 20 °C)
Self igniting:	Product is not selfigniting at room temperature
Danger of explosion: air/vapour mixtures are possible	Product is not explosive. However, formation of explosive
Solvent content:	4,6 %
Other information:	Not further relevant information available
Volatile organic compounds (VOC):	< 5 %

10 Stability and Reactivity

10.1 Reactivity:

10.2 Chemical stability

Thermal decomposition/conditions to be avoided: no decomposition if used according to specifications

10.3 Possibility of hazardous reactions:

Reacts with alcohols, amines, aqueous acids and alkalis

Reacts with water forming carbon monoxide. Danger of receptacles bursting because of vapour overpressure

10.4 Conditions to avoid:

No further relevant information available

10.5 Incompatible materials:

No further relevant information relevant

10.6 Hazardous decomposition products:

Non to our knowledge at room temperature

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC 50 values that are relevant for classification		
872-50-4 N-methyl-2-pyrrolidone		
Oral	LD50	3600 mg/kg (rat)
Dermal	LD50	8000 mg/kg (rbt)

Primary irritant effect:

On the skin: irritant to skin and mucous membranes

On the eyes: irritating effect

Sensitization

Sensitization possible through inhalation

Sensitization possible through skin contact

Additional toxicological information

Persons having a history of asthma or of allergies, chronic or recurring difficulties in breathing, must never use this preparation

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Carc. 2

12 Ecological information

12.1 Toxicity

Aquatic toxicity: not further relevant information available

12.2 Persistence and degradability:

no further relevant information available

12.3 Bioaccumulative potential

no further relevant information available

12.4 Mobility in soil

no further relevant information available

Additional exological information

General notes:

Water hazard class 1 (German Regulation) (self assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system

12.5 Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

12.6 Other adverse effects:

no further relevant information available

13 Disposal considerations

13.1 Waste treatment methods

Recommendation: Must be disposed of in an incinerator for hazardous waste according to official regulations.

Waste disposal key. 08 04 11*

Uncleaned packagings

Recommendation

Packagings that cannot be cleansed are to be disposed of in the same manner as the product. The packagings may be decontaminated for example with the following mixture: water +5 to 10 % sodium carbonate + 0,2 to 1 % liquid detergent. Add this mixture to the residues in the unclosed container in order to allow carbon dioxide to escape. Let react during several days until no reaction occurs

14 Transport Information

General statements

UN number:

ADR, AND, IMDG, IATA: Void

UN proper shipping name

ADR, AND, IMDG: Void

IATA: Not regulated

Transport hazard class:

ADR, AND, IMDG, IATA

Class: Void

Packing group:

ADR, IMDG, IATA: Void

Environmental hazards:

Marine Polluant: Void

Special precautions for user:

Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15 Regulatory information

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

National regulations

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to Reach, article 57: N-methyl-2-pyrrolidone (CAS: 872-50-4)

15.2 Chemical Safety Assessment:

A chemical safety assessment has not been carried out

16 Other information

Indication of changes Classification according to regulation (EC) 1207/2008 [CLP].

Relevant phrases

H304-may be fatal if swallowed and enters airways

H315-Causes skin irritation

H317-May cause an allergic skin reaction

H318-Causes serious eye damage

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

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

H351-Suspected of causing cancer.

Department issuing MSDS:

Saint-Gobain Rigips GmbH, Department: Ladenburg Development Center – Gypsum Development (LDC-GD); 68526 Ladenburg

Point of contact:

See point 1

Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship.