

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

1.1. Product identifier

Chemical type : mixture
Trade name : AQUAROC™ Joint adhesive PU glue

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

1.2.1. Relevant identified uses

Use of the substance/preparation : Adhesive for AQUAROC™ board

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

PLACOPLATRE
34 avenue Franklin Roosevelt
92150 Suresnes
Tel : 01.46.25.46.25
Email : placoinfo@saint-gobain.com

1.4. Emergency telephone number

Country	Official advisory body / Company	Address	Emergency number
FRANCE	ORFILA	http://www.centres-antipoison.net	+33 1 45 42 59 59

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Regulation (EC) N°1272/2008

Ski. 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

2.2. Label elements

Labelling according to Regulation (EC) N°1272/2008 :

The product is classified and labelled according to the CLP regulation.

Hazard pictograms :



Signal word: Danger

Hazard-determining components of labelling :

Diphenylmethandiisocyanate, isomers and homologues

Hazard statement:

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
H 351 suspected of causing cancer
H335 May cause respiratory irritation
H373 May cause damage to organs through prolonged or repeated exposure

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Precautionary statements:

P260	Do not breathe vapours
P280	Wear protective gloves / protective clothing / eye 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.
P312	Call a POISON CENTER /doctor if you feel unwell.
P501	Dispose of contents and container in accordance with legal regulations.

Advised precautionary statements:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
In case of inadequate ventilation wear respiratory protection

Additional information: Contains isocyanates. May produce an allergic reaction.

Additional information: Restricted to professional users.

2.3. Other hazards

Results of PBT and vPvB assessment




PBT: not applicable

vPvB: not applicable

SECTION 3: Composition/information on ingredients

Chemical characterization: mixtures

Description: adhesive containing a polyurethane prepolymer based on diphenylmethanediisocyanate

Name	Identification	%	Classification according to N° 1272/2008 regulation [CLP]
Methylenediphenyl diisocyanate	N° CAS: 26447-40-5 EINECS: 247-714-0 N° REACH: 01-2119457015-45	20-50%	 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
Diisodecyl phtalate (substance with a Community exposure limit)	N° CAS:26761-40-0 N° EINECS: 247-977-1 N° REACH: 01-2119422347-43	2-5%	
2-2' dimorpholinyl-diethyl éther	N° CAS: 6425-39-4 N° EINECS: 229-194-7 N° REACH: 01-2119969278-20	< 2%	 Skin Irrit.2, H315 Eye Irrit.2, H319
Diisononyl phtalate (substance with a Community exposure limit)	N° CAS:28553-12-0 N° EINECS: 249-079-5	< 0.5%	

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.

SECTION 4: First aid measures

4.1. Description of first-aid measures general

General information	Immediately remove any clothing soiled by the product
After inhalation	: Supply 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	: Do not induce vomiting; call for medical help immediately

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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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder or water spray

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: carbon monoxide (CO), nitrogen oxides (NO_x).

In certain fires conditions, traces of other toxic gases cannot be excluded, e.g: hydrogen cyanide (HCN), isocyanates.

5.3. Advice for fire-fighters

Protective equipment: wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product

Ensure adequate ventilation

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. References 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

Ensure good ventilation/exhaustion at the workplace

Open and handle receptacle with care

Information about protection against explosions and fires

No specific measures required

7.2. Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles

Store in a cool location

Provide ventilation for receptacles

Information about storage in one common storage facility: not required

Further information about storage conditions

Keep receptacle tightly sealed

Protect from humidity and water

7.3. Specific end use (s):

No further relevant information available

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SECTION 8: Exposure controls/personal protection

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

8.1. Control parameters

Components with limit values that require monitoring at the workplace:	
9016-87-9 Diphenylmethane diisocyanate, isomers and homologues	
WEL	Short term value: 0.07 mg/m ³
	Long term value: 0.02 mg/m ³
	Sen; as -NCO
26761-40-0 Diisodecyl phtalate	
WEL	Long term value: 5 mg/m ³
28553-12-0 diisononyl phtalate	
WEL	Long term value: 5 mg/m ³

Additional Occupational Exposure Limit Values for possible hazards during processing:	
101-68-8 4,4'-methylenediphenyl diisocyanate	
WEL	Short term value: 0.07 mg/m ³
	Long term value: 0.02 mg/m ³
	Sen; as -NCO

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

8.2. Exposure controls

Personal protective equipment

General protective and hygienic measures:

Wash hands before breaks and at the end of work

Immediately remove all soiled and contaminated clothing

Do not inhale gases/fumes/aerosols

Do not eat, drink, smoke while working

Avoid contact with eyes and skin

Breathing equipment:

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

Short term filter device: filter AB

Protection of hands:

Butyl, nitrile or polychloroprene rubber gloves of superior quality

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 can not be calculated in advance and has therefore to be checked prior to the application.

Eye protection: tightly sealed goggles

Body protection: protective work clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	
Appearance	:	Highly viscous
Colour	:	Cream coloured
Odour	:	Light
Melting point	:	Undetermined
Boiling point	:	> 200°C
Flash point	:	Not applicable
Self-ignition temperature	:	> 200°C
Decomposition temperature	:	> 140°C
Self igniting	:	Product is not selfigniting at room temperature
Explosive properties	:	Product does not present an explosion hazard
Density at 20°C	:	1.07
Solubility	:	Water: insoluble
Viscosity, dynamic	:	400 000 mPa.s (at 20°C)
Solvent content	:	0%
Other information	:	No further relevant information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available

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:

None to our knowledge at room temperature.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Primary irritant effect

Skin corrosions/irritation: causes skin irritation

Serious eye damage / irritation: cause serious eye irritation

Respiratory or skin sensitisation: may cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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):

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.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity: no 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 ecological 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

SECTION 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 09*

Uncleaned packagings

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Recommendation

Packagings that cannot be cleansed are to be disposed of in the same manner as the product. The packaging 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.

SECTION 14: Transport information

14.1 UN number ADR, AND, IMDG, IATA: Void
14.2 UN proper shipping name ADR, AND, IMDG: Void IATA: Not regulated
14.3 Transport hazard class ADR, AND, IMDG, IATA Class: Void
14.4 Packing group ADR, IMDG, IATA: Void
14.5 Environmental hazards Marine Polluant: void
14.6 Special precautions for user : not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code : Not applicable
UN " Model Regulation" : Void

SECTION 15: Regulatory information

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

National regulations
French VOC regulation (decree n°2011-321): Class A+
Other regulations, limitations and prohibitive regulations

15.2. Chemical safety assessment

A chemical safety assessment has 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. This datasheet is particularly in accordance with the European directives 1999/45/EC and its amendments; it is written according to annex I of the European regulation 453/2010/EC.

Relevant phrases

H304 may be fatal if swallowed and enters airways
H315 causes skin irritation
H317 may cause 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
H351 suspected of causing cancer
H373 may cause damage to organs through prolonged or repeated exposure

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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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

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

ANNEX 1: Exposure scenario 1

· **Short title of the exposure scenario**

Industrial use for rigid foam, coatings and adhesives and sealants

Professional end use in rigid foam, coatings, adhesives and sealants and other composite material

Consumer end use in rigid foam, coatings and adhesives and sealants

· **Sector of Use**

SU3 Industrial uses: uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU21 Consumer uses: Private households / general public / consumers

· **Product category**

PC1 Adhesives, sealants

PC9a Coatings and paints, thinners, paint removers

PC32 Polymer preparations and compounds

· **Process category**

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging/discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging/discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

· **Environmental release category**

ERC5 Use at industrial site leading to inclusion into/onto article

ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

ERC2 Formulation into mixture

· **Conditions of use** According to directions for use.

· **Duration and frequency**

up to 8 hour(s) per day

For consumer end use in rigid foam, coatings and adhesives and sealants :

Covers use up to 1 day/year

Covers skin contact area up to 2 cm²

· **Physical parameters**

· **Physical state** Liquid

· **Concentration of the substance in the mixture** Raw material.

· **Other operational conditions**

· **Other operational conditions affecting environmental exposure**

Local fresh water dilution factor: 10

Local marine water dilution factor : 100

· **Other operational conditions affecting worker exposure**

Avoid contact with the skin and eyes.

Indoor application.

Outdoor application.

Do not breathe gas/vapour/aerosol.

· **Other operational conditions affecting consumer exposure** Keep out of the reach of children.

· **Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.

Risk management measures

· **Worker protection**

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Provide extraction ventilation at points where emissions occur. Provide extract ventilation to material transfer points and other openings.

Handle in a fumecupboard or under extract ventilation.

If above technical/organisational control measures are not feasible, then adopt following PPE: wear a respirator conforming to EN140 with Type A filter or better.

Use suitable eye protection and gloves. Wear suitable coveralls to prevent exposure to the skin.

· **Organisational protective measures**

Ensure that activities are executed by specialists or authorised personnel only.

· **Technical protective measures**

Ensure that suitable extractors are available on processing machines

Work only in fume cupboard.

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Ensure good ventilation/exhaustion at the workplace.

· **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Tightly sealed goggles.

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

Short term filter device:

Filter A2B2-P3

Butyl, nitrile or polychloroprene rubber gloves of superior quality.

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.

Protective work clothing.

· **Measures for consumer protection**

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Protective gloves

Tightly sealed goggles.

· **Environmental protection measures**

· **Air** No special measures required.

· **Water** Do not allow to reach ground water, water bodies or sewage system.

· **Soil** Prevent contamination of soil.

· **Disposal measures** Disposal must be made according to official regulations.

· **Disposal procedures**

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

· **Exposure estimation**

· **Worker (dermal)**

The highest dermal exposure to be expected is 5.0 mg / kg / day.
(estimations using EASE)

· **Worker (inhalation)** The highest inhalative exposure to be expected is 0.05 ppm.

· **Environment**

Prediction of highest expected environmental exposure (soil) is 0.27 mg/kg dry weight

The highest environmental exposure to be expected for surface waters is 0.0687 mg / L.

Prediction of highest expected environmental exposure (sea water) is 0.000543 mg/kg

· **Consumer**

The highest inhalative exposure to be expected for consumers is 0.020 ppm.

The highest dermal exposure to be expected for consumers is 0.069 mg / kg / day.

(Consexpo model)

Guidance for downstream users

For the risk assessment, the tools recommended by ECHA can be used.