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SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: PORAJOINT PMUC

Product code: 333 PMUC.

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

Adhesive for the sealing

Professional use

1.3. Details of the supplier of the safety data sheet

Registered company name: ORAPI.

Address: PARC INDUSTRIEL DE LA PLAINE DE L'AIN - 225 ALLEE DES CEDRES.01150.SAINT-VULBAS.FRANCE.

Telephone: 33-(0)4-74-40-20-20. Fax: 33-(0)4-74-40-20-21.

fds@orapi.com

1.4. Emergency telephone number: 33-(0)1-45-42-59-59.

Association/Organisation: INRS.

Other emergency numbers

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Skin sensitisation (Xi, R 43).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:



GHS07

Signal Word : WARNING

Product identifiers:

EC 212-782-2 2-HYDROXYETHYL METHACRYLATE

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements - Prevention:

P261 Avoid breathing vapours.

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

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Precautionary statements - Response:

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

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition:

composition:				
Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 868-77-9	GHS07	Xi		10 <= x % < 25
EC: 212-782-2	Wng	Xi;R36/38-R43		
REACH: 01-2119490169-29	Skin Irrit. 2, H315			
	Skin Sens. 1, H317			
2-HYDROXYETHYL METHACRYLATE	Eye Irrit. 2, H319			
CAS: 80-15-9	GHS06, GHS05, GHS09,	T,N,O	[1]	0 <= x % < 2.5
EC: 201-254-7	GHS08, GHS02	T;R23		
REACH: 01-2119475796-19	Dgr	C;R34		
	Self-react. E, H242	Xn;R48/20/22-R21/22		
ALPHA ,ALPHA-DIMETHYLBENZYL	Org. Perox. E, H242	N;R51/53		
HYDROPEROXIDE	Acute Tox. 4, H302	O;R7		
	Acute Tox. 4, H312			
	Skin Corr. 1B, H314			
	Acute Tox. 3, H331			
	STOT SE 3, H335			
	STOT RE 2, H373			
	Aquatic Chronic 2, H411			
CAS: 115-86-6	GHS09	N	[1]	0 <= x % < 2.5
EC: 204-112-2	Wng	N;R50/53		
	Aquatic Chronic 2, H411			
TRIPHENYL PHOSPHATE	Aquatic Acute 1, H400			
	M Acute = 1			

Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

Bring to the fresh air.

Consult a physician in case of disorder.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Consult a specialist.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

Consult a doctor in the event of irritation.

In the event of swallowing:

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

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Do not induce vomiting.

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

No data available.

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

No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use:

- foam
- powder
- carbon dioxide (CO2)

Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

Avoid inhalation of vapours.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Avoid contact with skin, eyes and clothings.

Do not breathe vapours, fumes and fog.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

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Avoid skin and eye contact with this mixture.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container away from heat, bad weather, dampness and freezing.

Keep container tightly closed in a cool dry place.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- France (INRS - ED984 :2008) :

 $CAS \qquad \qquad VME\text{-ppm}: \quad VME\text{-mg/m3}: \quad VLE\text{-ppm}: \qquad VLE\text{-mg/m3}: \quad Notes: \qquad \quad TMP \; No:$

115-86-6 - 3 - - -

- Switzerland (SUVA 2009):

 $CAS \hspace{1cm} VME\text{-mg/m3}: \hspace{0.1cm} VME\text{-ppm}: \hspace{0.1cm} VLE\text{-mg/m3}: \hspace{0.1cm} VLE\text{-ppm}: \hspace{0.1cm} Temps: \hspace{0.1cm} RSB:$

80-15-9 - - - - - - - - - - 115-86-6 3i - - - - - - -

- UK / WEL (Workplace exposure limits, EH40/2005, 2007):

CAS TWA: STEL: Ceiling: Definition: Criteria:

115-86-6 3 mg/m3 - - -

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS TWA: STEL: Ceiling: Definition: Criteria:

115-86-6 3 mg/m3 - - -

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

2-HYDROXYETHYL METHACRYLATE (CAS: 868-77-9)

Final use:Exposure method:
Workers.
Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 1.3 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.
DNEL: 4.9 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 0.83 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 0.83 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 2.9 mg of substance/m3

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

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Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)

Recommended properties:

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing:

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

In the event of insufficient ventilation, wear a respiratory apparatus of protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state: Paste.

Important health, safety and environmental information

pH: Not relevant.

Boiling point/boiling range: Not specified.

Flash point interval: Not relevant.

Vapour pressure (50°C): Not relevant.

Density: > 1
Water solubility: Insoluble.
Melting point/melting range: Not specified.
Self-ignition temperature: Not specified.
Decomposition point/decomposition range: Not specified.

9.2. Other information

Colour: red

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid:

- heat
- flames and hot surfaces
- accumulation of electrostatic charges.
- exposure to light
- heating
- sources of ignition

The product polymerizes in absence of oxygen.

10.5. Incompatible materials

Keep away from:

- acids
- bases
- oxidising agents
- reducing agents
- amines
- radical initiators

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

May cause an allergic reaction by skin contact.

11.1.1. Substances

Acute toxicity:

ALPHA, ALPHA-DIMETHYLBENZYL HYDROPEROXIDE (CAS: 80-15-9)

Oral route : LD50 = 382 mg/kg

Species: Rat

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

TRIPHENYL PHOSPHATE (CAS: 115-86-6)

Fish toxicity: LC50 = 0.28 mg/l

Duration of exposure: 96 h

NOEC = 0.04 mg/l

Crustacean toxicity: EC50 = 0.86 mg/l

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Duration of exposure: 48 h

Algae toxicity: ECr50 = 0.6 mg/l

Duration of exposure: 96 h

ALPHA, ALPHA-DIMETHYLBENZYL HYDROPEROXIDE (CAS: 80-15-9)

Fish toxicity: LC50 = 3.9 mg/l

Species : Oncorhynchus mykiss Duration of exposure : 96 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

TRIPHENYL PHOSPHATE (CAS: 115-86-6)

Biodegradability: Fast degrading.

ALPHA, ALPHA-DIMETHYLBENZYL HYDROPEROXIDE (CAS: 80-15-9)

Biodegradability: Not fast degrading.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

SECTION 15: REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.

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- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16: OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols:



Irritant

Contains:

EC 212-782-2 2-HYDROXYETHYL METHACRYLATE

Risk phrase:

R 43 May cause sensitisation by skin contact.

Safety phrase :

S 3/14 Keep in a cool place away from reducing agents, oxidizing agents, acids, alkalis and heavy metal

compounds.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 50 Do not mix with other products. S 7 Keep container tightly closed.

Title for H, EUH and R indications mentioned in section 3:

H242 Heating may cause a fire. H302 Harmful if swallowed.

H302 + H312 Harmful if swallowed or in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.R 21/22 Harmful in contact with skin and if swallowed.

R 23 Toxic by inhalation.
R 34 Causes burns.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R 48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 7 May cause fire.

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Abbreviations:

DNEL: Derived No-Effect Level

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

WGK: Wassergefahrdungsklasse (Water Hazard Class).

GHS07: Exclamation mark