OWL PU MASTIC
Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its Amendment Regulation (EC) No. 1272/2008 (CLP) and EU 2020/878

Printing Date 17. 09. 2021 **Version Number 2 (replaces version 1)** **Revision: 17. 09. 2021**

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

1.1 Product identifier

Trade name: OWL PU MASTIC

1.2 Relevant identified uses of the substance or mixture and uses advised against Professional use
Application of the substance / the mixture: Polyourethane sealant for movement joints.
1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
OWL WATERPROOFING SOLUTIONS
135 Slaney Road, Dublin Industrial Estate
Glasnevin, Dublin 11
Tel: +353 01 830 2250
Email: info@owlwaterproofing.co.uk
Website: www.owlwaterproofing.co.uk

1.4 Emergency telephone number:

European Emergency Tel.: +353 01 830 2250

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation EC No 1272/2008 CLP:

GHS07 

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements
Labelling according to Regulation EC No 1272/2008 CLP:
The product is classified and labelled according to the CLP regulation.
Hazard pictograms:

GHS07 

Signal word: Warning
Hazard statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.
Precautionary statements
P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P321 Specific treatment (see on this label).
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture: consisting of the following components.

Ingredients according Regulation (EU) 2020/878:

CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-XXXX	xylene Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≤10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35-XXXX	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	≤5%
CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318	≤1%
CAS: 64742-47-8 EINECS: 265-149-8 Index number: 649-422-00-2	Distillates (petroleum), hydro- treated light Asp. Tox. 1, H304	≤1%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47-XXXX	4,4'-methylenediphenyl diisocyanate 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: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	≥0.01-<0.1%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Take affected persons out into the fresh air.

Seek immediate medical advice.

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.

Seek medical treatment in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for at least 15 minutes under running water.

Remove contact lenses and continue rinsing for several minutes

Protect unharmed eye.

Seek immediate medical advice.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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, powder or water spray. Fight larger fires with water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment:

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Make sure there is enough air circulation.
Avoid breathing in fumes.
Stay away from sources of ignition.
Wear safety gear when necessary. Keep vulnerable people at a distance.
Put on safety gear. Avoid skin and eye contact.
6.1.1 For non-emergency personnel Stay away from any leaking or flowing substances.
6.1.2 For emergency responders
Protective gear, gloves, goggles, and a breathing device with a type A filter are required for first-aid rescuers.
6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
6.3 Methods and material for containment and cleaning up:
Utilize absorbent material to collect (sand, diatomite).
Make sure there is enough airflow.
Utilize a liquid binding substance to absorb liquid components.
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
If applied effectively, no further safety measures are required.
Assure enough exhaustion and airflow at the worksite.
Avoid inhaling vapors.
Avoid eating, drinking, and smoking while using the product.
Avoid skin and eye contact.
7.2 Conditions for safe storage, including any incompatibilities
Storage:
Preserve the container tightly locked.
To avoid leaks, keep containers firmly in place and upright.
Requirements to be met by storerooms and receptacles:
Retain in a cold environment.
Don't let any liquid soak into the ground.
Receptacles should have ventilation.
Information about storage in one common storage facility:
Keep away from food.
Keep away from water.
Further information about storage conditions: Protect from heat and direct sunlight.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 1330-20-7 xylene

WEL (Great Britain)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin

CAS: 100-41-4 ethylbenzene

WEL (Great Britain)	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
IOELV (EU)	Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

DNELs

CAS: 1330-20-7 Xylene (mixture of isomers)

Workers:
High Exposure, Systemic, 180 mg/kg
Inhalation, Short Term Exposure, Systemic, 289 mg/m³
Inhalation, Short Term Exposure, Local, 289 mg/m³
Inhalation, Large exposure, Systemic, 77 mg/m³

Consumers:
Oral, Large exposure, Systemic, 1.6 mg/kg
Demal, Large exposure, Systemic, 108 mg/kg
Inhalation, Large Exposure, Systemic,14.8 mg/m³
CAS: 100-41-4 Ethylbenzene

Workers:
Dermal-Large exposure-Systemic-180 mg/kg
Inhalation-Short-term exposure-Local-293 mg/m³
Inhalation - Large exposure - Systemic - 77 mg/m³

Consumers:
Oral Exposure-Large Systemic-1.6 mg/kg
Inhalation-Large exposure-Systemic-15 mg/m³
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate.

Workers:
Dermal-Large exposure-Systemic-180 mg/kg
Inhalation-Short-term exposure-Local-293 mg/m³
Inhalation - Large exposure - Systemic - 77 mg/m³

Consumers:
Oral Exposure-Large Systemic-1.6 mg/kg
Inhalation-Large exposure-Systemic-15 mg/m³
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate.

Workers:
Inhalation - long-term systemic & local effects: 0.05 mg/m3.
Inhalation - acute systemic & local effects: 0.1 mg/m3.
Dermal - acute systemic effects: 50 mg/kg bw/d.
Dermal - acute local effects: 28.7 mg/cm2

Consumers:
Inhalation - long-term systemic & local effects: 0.025 mg/m3.
Inhalation - acute systemic & local effects: 0.05 mg/m3.
Dermal - acute systemic effects: 25 mg/kg bw/d.
Dermal - acute local effects: 17.2 mg/cm2
Oral - acute local effects: 20 mg/kg bw/d.

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid food, drink, and feed.
Prior to breaks and after work, wash your hands.
Keep your hands away from your skin and eyes.
Avoid eating, drinking, and smoking while using the product.
Avoid inhaling mists or vapors.
Protective clothes should be kept apart.

Respiratory protection:

In cases of inadequate ventilation, use an appropriate respiratory protection gear. Respiratory protection is necessary while spraying and in poorly ventilated work spaces. For brief durations of labor, a charcoal filter and particle filter A2-P2 (EN529) combination mask or an air-fed mask are advised.

Hand protection

Protective gloves resistant to chemicals (standard EN 374-1)
The material used for the gloves must be waterproof and resistant to the product, substance, or preparation.
No advice for the glove material for the product, preparation, or chemical mixture can be made due to a lack of studies. Choose the glove material while taking the degradation, diffusion, and penetration rates into account.

Material of gloves

Hand protection when handling the product at room temperature:
Butyl rubber - IIR: thickness ≥0,5mm; breakthrough time ≥480min.
Fluorinated rubber - FKM: thickness ≥0,4mm; breakthrough time ≥480min.
Recommendation: contaminated gloves should be disposed of.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.
Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Chemically resistant, protective work clothing (EN 14605) and boots.

Environmental exposure controls

Prevent enter of the product into drains, surface and groundwater and soil.

Dispose of flushing liquids in accordance with local and national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid
Colour	Various colours
Odour	Characteristic
Odour threshold	Not determined
Melting point/freezing point	Not determined
Flammability	Not applicable
Lower and upper explosion limit **Lower:** **Upper:**	 Not determined Not determined
Flash point	Not Flammable
Auto-ignition temperature	Product is not self igniting

Decomposition temperature	Not determined
pH	Not determined
Viscosity **Kinematic viscosity:**	Not determined
Dynamic	Not determined
Solubility Water	Insoluble
Flammability	Not applicable
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure	Not determined
Density and/or relative density **Density at 20 °C:** **Relative density** **Vapour density**	1.12-1.18 g/cm³ Not determined Not determined

9.2 Other information

Appearance: **Form:**	**Paste**

Important information on protection of health and environment, and on safety. Auto-ignition temperature:	Not determined
Explosive properties	Product does not present an explosion hazard.
Cloud point / clarification point: **Oxidising properties**	Not oxidising
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
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided Stable at environment temperature.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid Avoid heat, sparkles, naked flame or other sources of ignition.
10**.5 Incompatible materials** Amines

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification:
ATE (Acute Toxicity Estimates)

Dermal	**LD50**	**≥17,000 mg/kg (rabbit)**
Inhalative	**LC50/4 h (vapour)**	**≥73.3 mg/l**

CAS: 1330-20-7 xylene

Oral	**LD50**	**4,300 mg/kg (rat)**
Dermal	**LD50**	**1,700 mg/kg (rabbit)**
Inhalative	**LC50 (4h)**	**5,000 ppm (rat)**

CAS: 100-41-4 ethylbenzene

Oral	**LD50**	**3,500 mg/kg (rat)**
Dermal	**LD50**	**17,800 mg/kg (rabbit)**
Inhalative	**LC50 (4h)**	**4,000 ppm (rat)**

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

Oral	**LD50**	**2,200 mg/kg (rat)**
Dermal	**LD50**	**>9,400 mg/kg (rabbit)**

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/irritation Causes serious eye irritation.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.
Additional toxicological information:
Repeated dose toxicity Based on available data, the classification criteria are not met.
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: 1330-20-7 xylene

EC50 (48h)	>7.4 mg/l (daphnia magna)
LC50 (96h)	2.6 mg/l (fis)
NOEC r (72h)	440 mg/l (algae)

CAS: 100-41-4 ethylbenzene

EC50 (48h)	73 mg/l (daphnia magna)

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

EC50 (48h)	>1,000 mg/l (daphnia magna) (Daphnia magna Reproduction Test)
EC50 (72h)	>1,640 mg/l (ssu) (Freshwater Alga and Cyanobacteria, Grow Inhibition)
LC50 (96h)	>1,000 mg/l (Danio rerio) (Fish, Acute Toxicity Test)
NOEC (21d)	>10 mg/l (Daphnia magna) (Daphnia sp. Acute Immobilisation Test)

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.
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 No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Dispose according to National Regulations.

Not to be disposed of with regular trash. Do not let product enter the drainage system.

Uncleaned packaging:

Recommendation: Official guidelines must be followed while disposing materials.

SECTION 14: Transport information

14.1 UN number or ID number ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class Void

14.4 Packing group ADR, IMDG, IATA Void

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

UN "Model Regulation": Void

SECTION 15: Regulatory information

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

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on safeguarding employees' health and safety against hazards posed by chemical agents at work.

Youth protection at work: amended version of Council Directive 94/33/EC.

The amended version of Directive 92/85/EEC on the adoption of measures to promote advancements in the safety and health at work of pregnant employees, new mothers, and nursing employees

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 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.

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
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.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
EUH204 Contains isocyanates. May produce an allergic reaction.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Department issuing SDS:
OWL WATERPROOFING SOLUTIONS
135 Slaney Road, Dublin Industrial Estate
Glasnevin, Dublin 11
Tel: +353 01 830 2250
Email: info@owlwaterproofing.co.uk
Website: www.owlwaterproofing.co.uk

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Version number of previous version: 1

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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
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
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
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
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
Asp. Tox. 1: Aspiration hazard – Category 1

*** Data compared to the previous version altered.**