



SAFETY DATA SHEET

USP-PIR Resin Part A

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Compilation date: 01/08/2017

Revision date: 07/05/2015

Revision No: 1

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

1.1. Product identifier

Product name: USP-PIR Resin

Product code: Part A

Synonyms: POLYESTER RESIN

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

1.3. Details of the supplier of the safety data sheet

Use of substance / mixture: Synthetic resins hardened through polymerisation.

Company name: Urban Surface Protection Ltd

Daisy Dene,

Inglewhite Road

Preston

PR3 2EB

United Kingdom

Tel: 07701308748

Email: info@urbansurfaceprotection.co.uk

1.4. Emergency telephone number

Emergency tel: 07701308748

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: STOT RE 1: H372; Acute Tox. 4: H302+332; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Repr. 2:

H361d; Skin Irrit. 2: H315

Most important adverse effects: Flammable liquid and vapour. Harmful if swallowed or if inhaled. Causes skin irritation.

Causes serious eye irritation. Suspected of damaging the unborn child. Causes damage to organs ears through prolonged or repeated exposure [inhalation (vapour)].

2.2. Label elements

Label elements:

Hazard statements: H226: Flammable liquid and vapour.

H302+332: Harmful if swallowed or if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H361d: Suspected of damaging the unborn child.



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H372: Causes damage to organs ears through prolonged or repeated exposure [inhalation (vapour)].

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark

GHS08: Health hazard



Signal words: Danger

Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241: Use explosion-proof electrical/ventilating/lighting/.. equipment.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

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

P301+312: IF SWALLOWED: Call a if you feel unwell.

P302+352: IF ON SKIN: Wash with plenty of water/.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

STYRENE - REACH registered number(s): 01-2119457861-32-0000

EINECS	CAS	PBT / WEL	CLP Classification	Percent
202-851-5	100-42-5	-	Flam. Liq. 3: H226; Repr. 2: H361d; Acute Tox. 4: H332; STOT RE 1: H372; Skin Irrit. 2: H315; Eye Irrit. 2: H319	30-50%

2,2(M-TOLYLIMINO)DIETHANOL

202-114-8	91-99-6	-	Eye Dam. 1: H318	<1%
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HYDROQUINONE - REACH registered number(s): 01-2119524016-51-XXXX

204-617-8	123-31-9	-	Carc. 2: H351; Muta. 2: H341; Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Acute 1: H400	<1%
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P-BENZOQUINONE

203-405-2	106-51-4	-	Acute Tox. 3: H331; Acute Tox. 3: H301; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Aquatic Acute 1: H400	<1%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Immediate / special treatment: Not applicable.

Extinguishing media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures



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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Do not use brass, copper, copper alloys

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Specific end use(s): No data available.

Hazardous ingredients:

STYRENE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
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URBAN SURFACE PROTECTION
THE TOTAL SURFACE PROTECTOR

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UK	430 mg/m ³	1080 mg/m ³	-	-
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HYDROQUINONE

UK	0.5 mg/m ³	-	-	-
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P-BENZOQUINONE

UK	0.45 mg/m ³	1.3 mg/m ³	-	-
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DNEL/PNEC Values

Hazardous ingredients:

STYRENE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	289mg/m ³	Workers	Systemic
DNEL	Dermal	406mg/kg	Workers	Systemic
PNEC	Fresh water	0.028mg/l	-	-

HYDROQUINONE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	128mg/kg/day	Workers	Systemic
DNEL	Inhalation	1mg/m ³	Consumers	Systemic
PNEC	Fresh water	0.00014mg/l	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Yellow-brown

Odour: Characteristic odour

Solubility in water: Insoluble

Viscosity: Highly viscous

Flammability limits %: lower: 1.1

upper: 6.1

Flash point°C: 31

Part.coeff. n-octanol/water: 2.96

Autoflammability°C: 490

Vapour pressure: 6.7 hPa

[cont...]



9.2. Other information

Other information: viscosity = 200 mPa.s

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
VAPOURS	RAT	4H LC50	11.8	mg/l

Hazardous ingredients:

STYRENE

DERMAL	RAT	LD50	2000	mg/kg
ORL	RAT	LD50	5000	mg/kg
VAPOURS	RAT	4H LC50	11.8	mg/kg

HYDROQUINONE

DERMAL	RBT	LD50	2000	mg/kg
ORAL	RAT	LD50	375	mg/kg



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ORL	MUS	LD50	25	mg/kg
ORL	RAT	LD50	130	mg/kg
SCU	MUS	LD50	93800	µg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Reproductive toxicity	--	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	48H EC50	4.02	mg/l
Daphnia magna	48H EC50	4.7	mg/l
ALGAE	72H ErC50	>4.9	mg/l

Hazardous ingredients:

STYRENE

Daphnia magna	48H EC50	4.7	mg/l
FISH	96H LC50	4.02	mg/l

HYDROQUINONE

Daphnia magna	48H EC50	0.134	mg/l
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RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	0.638	mg/l
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P-BENZOQUINONE

RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	0.125	mg/l
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12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

Bioaccumulative potential: No bioaccumulation potential.

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

PBT identification: This product is not identified as a PBT/vPvB substance.

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1866

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Shipping name: RESIN SOLUTION

Transport class: 3

14.4. Packing group

14.5. Environmental hazards

Packing group: III

Environmentally hazardous: No

Marine pollutant: No



14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Specific regulations: Not applicable.

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H226: Flammable liquid and vapour.

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H302+332: Harmful if swallowed or if inhaled.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H361d: Suspected of damaging the unborn child.

H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.