# PRODUCT SAFETY DATA SHEET



### **POLYURETHANE RESIN MP-41**

According to the REACH Regulations EC No 1907/2006, as retained and amended in UK law, and based on EU 2020/878. Revision date 13/11/2023 Issue date 13/11/2023 Version 5

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

#### 1.1 Product identifier

**Product form:** Mixture

**Product name:** POLYURETHANE RESIN MP-41

### 1.2 Product identifier

1.2.1 Relevant identified uses

Professional Use Main use category:

Use of the substance/mixture: Sealant

1.2.2 Uses advised against

**Restrictions on use:** No uses have been identified that are advised against

### 1.3 Details of the supplier of the safety data sheet

Supplier: Steve Vick International Limited

19 Treenwood Industrial Estate

Bradford on Avon BA15 2AU

Tel 01225 864 864

email: info@stevevick.com

### 1.4 Emergency telephone number

**EMERGENCY TELEPHONE NUMBER:** +44(0)207 858 1228

Country	Organisation / Company	Address	<b>Emergency Number</b>	Comment
United Kingdom	National Poisons Information Service	Dudley Road	0344 892 0111	Only for healthcare
	(Birmingham Centre)	B18 7QH		professionals
	City Hospital			
United Kingdom	National Poisons Information Service	Penlan Road	0344 892 0111	Only for healthcare
	(Cardiff Centre)	CF64 2XX		professionals
	University Hospital Llandough			
United Kingdom	National Poisons Information Service	Little France Crescent	0344 892 0111	Only for healthcare
	(Edinburgh Centre)	EH16 4SA		professionals
	Royal Infirmary of Edinburgh			
United Kingdom	National Poisons Information Service	16/17 Framlington Place	0344 892 0111	Only for healthcare
	(Newcastle Centre)	Newcastle-Upon-Tyne		professionals
	Regional Drugs & Therapeutic Centre	NE2 4AB		
United Kingdom	National Poisons Information Service	Grosvenor Road	0344 892 0111	Only for healthcare
	(Belfast Centre)	BT12 6BA		professionals
	Royal Victoria Hospital			
United Kingdom	NHS 111 / NHS 24 / NHS Direct		111	Or call a doctor
			0845 4647	

### **SECTION 2: Hazard Identification**

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP], as amended for UK law Not classified

Adverse physicochemical, human health and environmental effects













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To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. Contains no substances known to be hazardous to the environment.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP], as amended for UK law No labelling applicable

### 2.3 Other hazards

#### Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Name	Product identifier	%	Labelling according to Regulation (EC) No 1272/2008 [CLP], as amended for UK law
Tris(2-chloro-1-methylethyl) phosphate	CAS-No.: 1244733-77-4 EC-No.: 807-935-0	≥ 30 - < 60	Acute Tox. 4 (Oral), H302

Full text of H- and EUH-statements: See Section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

First aid measures general If you feel unwell, seek medical advice (show the label where possible)

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Maintain an open airway.

Loosen tight clothing such as collar, tie or belt or waistband.

**Ingestion:** Rinse mouth out with water. Do not induce vomiting. Give nothing or a little water to drink. Call a

poison centre or a doctor if you feel unwell.

**Skin:** After contact with skin, take off immediately all contaminated clothing and wash immediately

with plenty of water

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do so. Continue rinsing.

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

Symptoms/effects after inhalation None under normal use. Inhalation may cause irritation (cough, short breathing, difficulty in

breathing

**Symptoms/effects after ingestion** May cause discomfort. May cause stomach cramps and vomiting.

Symptoms/effects after skin contact Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact May cause eye irritation.

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

Treat symptomatically.













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# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

**Suitable extinguishing media:** If there is a fire close by, use suitable extinguishing agents. Water spray. Dry powder. Foam

**Unsuitable extinguishing media:** Use of heavy stream of water may spread fire.

#### 5.2 Special hazards arising from the substance or mixture

**Fire hazards** On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers

exposed to heat with a water spray.

**Explosion hazard** No data available on direct explosion hazard. No data available on indirect explosion hazard.

Hazardous decomposition products Toxic fumes may be released.

in case of fire

### **5.3 Advice for firefighters**

**Precautionary measures fire** Evacuate area. Eliminate all ignition sources if safe to do so.

**Firefighting measures** Evacuate area. Eliminate all ignition sources if safe to do so. Use wate spray or fog for cooling

exposed containers.

**Protection during firefighting** Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

**Other information** On exposure to high temperature, may decompose, releasing toxic gases

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

General measures Collect spillage. May be disposed of with non-hazardous industrial waste

### 6.1.1 For non-emergency personnel

**Protective equipment** Wear recommended personal protective equipment.

**Emergency procedures** Ventilate spillage area. Prevent further leakage or spillage if safe to do so.

**6.1.2** For emergency responders

**Protective equipment** Do not attempt to take action without suitable protective equipment. For further information refer

to section 8. "Exposure controls/personal protection".

**Emergency procedures** Evacuate unnecessary personnel. Keep away from combustible material.

### **6.2 Environmental precautions**

Avoid release to the environment

### 6.3 Methods and material for containment and cleaning up

For contamination Cover spill with non combustible material, e.g.: sand, earth, vermiculite. For large spills, confine

the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.

Methods for cleaning up Mechanically recover the product

**Other information** Dispose of materials or solid residues at an authorised site

#### 6.4. Reference to other sections

For further information refer to Section 8. "Exposure controls/personal protection". For further information refer to section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

**Precautions for safe handling:** Ensure good ventilation of the work station. Wear personal protective equipment.





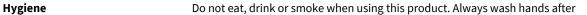






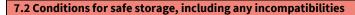


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handling the product. Keep container tightly closed and away from heat, sparks and

flame.



**Storage conditions** Store in well ventilated place. Keep cool

Storage areaStore in well ventilated place.Special rules on packagingStore in closed container.

### 7.3 Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### 8.1.1 National occupational exposure and biological limit values

No additional information available

### 8.1.2 Recommended monitoring procedures

No additional information available

### 8.1.3 Air contaminants formed

No additional information available

#### 8.1.4 DNEL and PNEC

Tris(2-chloro-1-methylethyl) phosphate (1244733-77-4)		
DNEL/DMEL (Workers)		
Acute – systemic effects, dermal	2.08mg/kg bodyweight/day	
Acute – systemic effects, inhalation	22.6 mg/m <sup>3</sup>	
Long-term – systemic effects, dermal	2.91 mg/kg bodyweight/day	
Long-term – systemic effects, inhalation	8.2 mg/m <sup>3</sup>	
DNEL/DMEL (General population)		
Acute – systemic effects, dermal	1.04 mg/kg bodyweight/day	
Acute – systemic effects, inhalation	5.6 mg/m <sup>3</sup>	
Acute – systemic effects, oral	2 mg/kg bodyweight/day	
Long-term – systemic effects, oral	0.52 mg/kg bodyweight/day	
Long-term – systemic effects, inhalation	1.45 mg/m <sup>3</sup>	
Long-term – systemic effects, dermal	1.04 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.32 mg/l	
PNEC aqua (marine water)	0.032 mg/1	
PNEC aqua (intermittent, inhalation)	0.51 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	11.5 mg/kg dwt	
PNEC sediment (marine water)	1.15 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.34 mg/kg dwt	
PNEC (Oral)		
PNEC oral (Secondary poisoning)	11.6 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plan	19.1 mg/l	

1,4-diazabicyclooctane (280-57-9)		
DNEL/DMEL (Workers)		
Long-term – systemic effects, dermal	1.4 mg/kg bodyweight/day	













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Long-term – systemic effects, inhalation	8.24 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term – systemic effects, oral	0.5 mg/kg bodyweight/day
Long-term – systemic effects, inhalation	1.46 mg/m <sup>3</sup>
Long-term – systemic effects, dermal	0.5 mg/kg bodyweight/day

### 8.1.5 Control banding

No additional information available

### 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

### **Appropriate engineering controls**

Ensure good ventilation of the work station

### 8.2.2 Personal protective equipment

Wear recommended personal protective equipment.

#### Personal protective equipment symbols









# 8.2.2.1 Eye and face protection

### Eye protection:

Chemical goggles or safety glasses

# 8.2.2.2 Skin protection

### Skin and body protection:

Wear suitable protective clothing

### **Hand protection:**

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NRB)	5 (> 240minutes)	≥ 0.13		

### 8.2.2.3 Respiratory protection

### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of inadequate ventilation respiratory equipment.

Respiratory protection			
Device	Filter type	Condition	Standard
Dust mask	Type P3	Protection for Liquid particles	EN 149
Disposable half mask	Type P3	Protection for Liquid particles	EN 140
Reusable half mask	Type P3	Protection for Liquid particles	EN 140
Full face mask	Type P3	Protection for Liquid particles	EN 136

### 8.2.2.4 Thermal hazards

No additional information available

### 8.2.3 Environmental exposure controls













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### **Environmental exposure controls:**

Avoid release to the environment.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state Liquid

ColourLight (or pale). amberAppearanceColoured liquid

Odour Mild.

Odour thresholdNot availableMelting pointNot determined.Freezing pointNot determined.Boiling pointNot availableFlammabilityNot flammableExplosive propertiesNot determined.

**Oxidising properties** Does not meet the criteria for classification as oxidising.

**Explosive limits** Not applicable. Lower explosion limit Not available **Upper explosion limit** Not available Flash point >100°C Closed cup. **Auto-ignition temperature** >250°C Closed cup. **Decomposition Temperature** Not available. pН Not determined. Viscosity, kinematic Not available Viscosity, dynamic 750 mPa s @ 25°C Solubility Not available

**Partition coefficient** 

n-octanol/water (Log Kow)Not available.Vapour pressureNot determined.Vapour pressure at 50°CNot available.DensityNot available.Relative density1.1 @ 20°CRelative vapour density at 20°CNot determinedParticle characteristicsNot applicable

### 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

No additional information available

### 9.2.2 Other safety characteristics

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

This product is non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Stable at normal conditions

### 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4 Conditions to avoid

None under recommended storage and handling conditions (See section 7)













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### 10.5 Incompatible materials

No additional information available

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)Not classified.Acute toxicity (dermal)Not classified.Acute toxicity (inhalation)Not classified.

Tris(2-chloro-1-methylethyl) phosphate (1244733-77-4)		
LD50 oral rat	1500 mg/kg Source: RTECS	
LD50 dermal rat	> 2000 mg/kg bodyweight	
	Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU	
	Method B.3 (Acute Toxicity (Dermal))	
LD50 dermal rabbit	> 5000 mg/kg Source: SIDS	
LC50 Inhalation - Rat	> 7 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity),	
	Guideline: OECD Guideline 433 draft (Acute Inhalation Toxicity: Fixed Concentration	
	Procedure) (not officially approved)	
LC50 Inhalation – Rat (Dust/Mist)	> 4.6 mg/l Source: IUCLID	

**Skin corrosion/irritation** Not classified.

pH: Not determined.

pH 8 – 8.5

**Serious eye damage/irritation** Not classified.

pH: Not determined.

**Respiratory or skin sensitisation** Not classified.

### Tris(2-chloro-1-methylethyl) phosphate (1244733-77-4)

pH 8 – 8.5

Germ cell mutagenicityNot classified.CarcinogenicityNot classified.Reproductive toxicityNot classified.

Tris(2-chloro-1-methylethyl) phosphate (1244733-77-4)		
LOAEL (animal/female, F0/P) ≈ 99 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD G		
	416 (Two-Generation Reproduction Toxicity Study)	
NOAEL (animal/male, F0/P)	≈ 85 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 416	
	(Two-Generation Reproduction Toxicity Study)	

STOT - single exposure Not classified.
STOT - repeated exposure Not classified.

Tris(2-chloro-1-methylethyl) phosphate (1244733-77-4)		
LOAEL (oral, rat, 90 days)	≈ 99 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:	
NOAEL (oral, rat, 90 days)	≈ 85 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:	

**Aspiration hazard** Not classified

Tris(2-chloro-1-methylethyl) phosphate (1244733-77-4)	
Viscosity, kinematic	44.186 mm <sup>2</sup> /s













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### 11.2 Information on other hazards

No other information available

### **SECTION 12: Ecological information**

### 12.1 Toxicity

**Ecology - general** This product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic Environment, short-term (acute)

Not classified.

Hazardous to the aquatic

Not classified.

Environment, long-term (chronic)

Not rapidly degradable

Tris(2-chloro-1-methylethyl) phosphate (1244733-77-4)				
LC50 - Fish [1]	56.2 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)			
EC50 - Crustacea [1]	131 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	82 mg/l Test organisms (species): Raphidocelis subcapitata (previous names:			
	Pseudokirchneriella subcapitata, Selenastrum capricornutum)			
EC50 72h - Algae [2]	33 mg/l Test organisms (species): Raphidocelis subcapitata (previous names:			
	Pseudokirchneriella subcapitata, Selenastrum capricornutum)			
NOEC (chronic)	32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC chronic fish	5.2 mg/l Test organisms (species): other:			

### 12.2 Persistence and degradability

No additional information available

### 12.3 Bioaccumulative potential

Tr	is(2-ch	loro-1-n	neth	ylethy	/l) p	hos	pha	te (1	244	733-77	-4)
									`		

Partition coefficient n-octanol/water (Log Pow) 3.33

### 12.4 Mobility in Soil

### Tris(2-chloro-1-methylethyl) phosphate (1244733-77-4)

Mobility in soil 3372.87

### 12.5 Results of PBT and vPvB assessment

No additional information available

### 12.6 Endocrine disrupting properties

No additional information available

### 12.7 Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**Waste treatment methods** Dispose of contents/container in accordance with licenced collector's sorting instructions.













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**HP Code:** HP3 - "Flammable:"

- flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;

- flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;

– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;

 water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;

– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / AND / RID

### 14.12 UN number or ID number

UN-No. (ADR)Not ApplicableUN-No. (IMDG)Not ApplicableUN-No. (IATA)Not ApplicableUN-No. (ADN)Not ApplicableUN-No. (RID)Not Applicable

### 14.2 UN proper shipping name

Proper Shipping Name (ADR)
Proper Shipping Name (IMDG)
Proper Shipping Name (IATA)
Proper Shipping Name (ADN)
Proper Shipping Name (RD)
Not Applicable
Not Applicable

### 14.3 Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) Not Applicable

IMDG

Transport hazard class(es) (IMDG) Not Applicable

IATA

Transport hazard class(es) (IATA) Not Applicable

ADN

**Transport hazard class(es) (ADN)** Not Applicable

RID

Transport hazard class(es) (RID) Not Applicable

### 14.4 Packing group

Packing group (ADR)Not ApplicablePacking group (IMDG)Not ApplicablePacking group (IATA)Not ApplicablePacking group (ADN)Not ApplicablePacking group (RID)Not Applicable

### 14.5 Environmental hazard













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**Dangerous to the environment** No **Marine pollutant** No

**Other information** No supplementary information available



### 14.6 Special precautions for user

Overland transportNot applicableTransport by seaNot applicableAir transportNot applicableInland waterway transportNot applicableRail transportNot applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

### **SECTION 15: Regulatory information**

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

### 15.1.1 EU Regulations

### **REACH Annex XVII (Restriction List)**

### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### **POP Regulations (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulations (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### **Explosive Precursors Regulations (2019/1148)**

Contains no substance(s) listed on Explosive Precursors list (Regulation EU 2019/1148 on the marketing and use of explosive precursors)

### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on the market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2 National regulations

No additional information available

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

16.1 Abbreviations and acronyms			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate.		
BCF	Bioconcentration factor		













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BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association.
IMDG	International Maritime Dangerous Goods.
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Levels
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail.
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative.
ED	Endocrine disrupting properties

15.2 Chemical safety assessment			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
H302	Harmful if swallowed.		

### DISCLAIMER

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