

Page: 1 Compilation date: 05/02/2019 Revision No: 3

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

### 1:1 Product identifier

Product name:

## CASCAPHEN

### 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

#### Company name:

POLYVINE LTD  
VINE HOUSE,  
CHEDDAR BUSINESS PARK,  
WEDMORE ROAD,  
CHEDDAR BS27 3EB  
ENGLAND

Tel: 0044 845 017 1671

Fax: 0044 845 017 1670

Email: laboratory@polyvine.co.uk

### 1.4. Emergency telephone number

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

Main hazards

contains: Resorcinol and Phenol UN. Number 2810. Harmful in contact with skin and if swallowed • Causes burns • Possible risk of irreversible effects • Do not breath vapour • Use only in well ventilated areas

P264: Wash contaminated skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor. P321: Specific treatment (see information on this label). P261: Avoid breathing dust. P272: Contaminated work clothing should not be allowed out of the workplace. P363: Wash contaminated clothing before reuse. P302+352: IF ON SKIN: Wash with plenty of soap and water. P333+313: If skin irritation or rash occurs: Get medical advice. P501: Dispose of contents/container to approved waste disposal site. P285: In case of inadequate ventilation wear respiratory protection. -----

### 2.2. Label elements

Label elements: Precautionary statements: P102: Keep out of reach of children. P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. P262: Do not get in eyes, on skin, or on clothing. P280: Wear protective gloves and eye protection. P302+350: IF ON SKIN: Gently wash with plenty of soap and water. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
 POLYVINE CASCAPHEN  
 Page: 2 Compilation date: 05/02/2019 Revision No: 3

**Section 3: Composition/information on ingredients**

Substance/Preparation Preparation

Chemical name\*

<b>Chemical name*</b>	<b>CAS No.</b>	<b>%</b>	<b>EC Number</b>	<b>Classification</b>
Resorcinol	108-46-3	10-30	203-585-2	Xn; R22 Xi; R36/38 N; R50
Ethanol	64-17-5			
Phenol	108-95-2	5-10	200-578-1-5	F; R11 T; R24/25
Sodium hydroxide	1310-73-2		203-632-6	C; R34
<b>See Section 16 for the full text of the R Phrases declared above</b>		0.1-1	7	C; R35

\* Occupational Exposure Limit(s), if available, are listed in section 8

**3.2. Mixtures**

There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

**Section 4: First aid measures**

**4.1. Description of first aid measures**

contains: Resorcinol and Phenol UN. Number 2810. Harmful in contact with skin and if swallowed • Causes burns • Possible risk of irreversible effects • Do not breath vapour • Use only in well ventilated areas • Keep locked up and out of the reach of children • In case of contact with eyes, rinse immediately with plenty of water and seek medical advice • Wear suitable protective clothing, gloves and eye protection • In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**4.1:** Eye contact: Immediately flush with water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contacts the entire surface of eyes and lids. Seek immediate medical attention.

**4.2:** Skin contact : Wash affected area with soap and water for 15 minutes. Remove contaminated clothing. In cases of prolonged irritation, seek medical advise.

**4.3:** Inhalation : If inhalation causes adverse effects, remove to fresh air. If problem persists, seek medical advise

**4.4:** Ingestion : If swallowed, give large volumes of milk. Do not induce vomiting. Obtain medical attention.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

Vaporizing liquid type, powder, foam or CO<sub>2</sub>, Water spray fog or mist. Very low risk of fire.

**5.2: Hazardous Decomposition Products**

High temperatures generate carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO)

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 3 Compilation date: 05/02/2019 Revision No: 3

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

**Exposure hazards:** In a fire, hazardous decomposition products such as smoke and Carbon Monoxide may be produced.

### 5.3. Advice for fire-fighters

Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do NOT allow run-off from fire fighting to enter drains or water courses.

## Section 6: Accidental release measures

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

: Ventilate the area. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing (see section 8).

### 6.2. Environmental precautions:

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

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

Shovel into suitable dry containers and re-use if possible.

Flush the area with water. Ensure residue does not gain access to watercourses.

### 6.4. Reference to other sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Use in well ventilated areas and avoid breathing of dust. Use an approved respirator if air is contaminated above acceptable levels.

When blended with water, the concentration of free formaldehyde of the reconstituted resin will increase to a value of 1 to 2 percent (w/w).

The reconstituted product must therefore be considered to be Harmful for Supply, with the following risk phrases 'Possible risk of irreversible effect and May cause sensitisation by skin contact.

Safety phrases as used in Section 15 should also be used.

Care must be taken when opening containers due to a small build up of formaldehyde gas.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. KEEP AWAY FROM FREEZING, minimum storage temperature 5 degrees C. Keep away from direct sunlight. Keep container tightly closed. Suitable packaging: Ideally, keep in original container. If transfer is necessary use glass or coated steel containers.

### 7.3. Specific end use(s)

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters Hazardous ingredients:

#### Ingredient Name Occupational Exposure Limits

#### Ethanol ACGIH (United States).

TWA: 1000 ppm

TWA: 1000 ppm 8 hour(s).

TWA: 1880 mg/m<sup>3</sup> 8 hour(s).

#### ACGIH TLV (United States, 2000). Notes: 1996 Adoption Refers to Appendix A -- Carcinogens.

TWA: 1880 mg/m<sup>3</sup> 8 hour(s).

TWA: 1000 ppm 8 hour(s).

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 4 Compilation date: 05/02/2019 Revision No: 3

**Phenol 2000/39/EC (Europe, 2000). Skin**

TWA: 2 ppm 8 hour(s).

TWA: 7,8 mg/m<sup>3</sup> 8 hour(s).

**80/1107/EEC (Europe, 2000). Skin Notes: Indicative**

TWA: 7,8 mg/m<sup>3</sup> 8 hour(s).

TWA: 2 ppm 8 hour(s).

**Sodium hydroxide ACGIH TLV (United States, 2000).**

CEIL: 2 mg/m<sup>3</sup>

**Recommended monitoring procedures**

**Personal protective equipment**

**Respiratory system** : Vapour respirator. as filter A2 Wear appropriate respirator when ventilation is inadequate.

**Skin and body** Overalls buttoned to the neck and wrist.

**Hands** Neoprene gloves. Nitrile gloves. Always check with the manufacturer of the gloves if their quality fulfils the requirements for the chemical composition.

**Eyes** Safety glasses with side shields.:

**8.2. Exposure controls**

**ENGINEERING CONTROLS:** The following exposure control techniques may be used to effectively minimise employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programmes are adequate.

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and airflow patterns should be provided to keep air contaminant concentrations below acceptable levels. Refer to section 2 Composition/Information on Ingredients which details specific exposure limits where applicable.

8.2. Personal Protection : Wear synthetic protective clothing (aprons and boots) if contact is likely. Where air contamination can exceed acceptable criteria, use approved respiratory protection equipment. Respirators should be chosen based upon the form and concentration of the air contaminants. Use goggles and face shield if contact is likely. Wear gloves as required to prevent skin contact.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state Liquid

Melting Point May start to solidify at -113.84°C (-172.9°F) based on data for: Ethanol.

Boiling Point The lowest known value is 78.4°C (173.1°F) (Ethanol).

Vapour Pressure The highest known value is 0.8 kPa (5.8 mmHg) (at 20°C) (Ethanol).

Density 1.115 g/cm<sup>3</sup>

Vapour Density The highest known value is 1.6 (Air = 1) (Ethanol).

Solubility Easily soluble in methanol, diethyl ether. Soluble in hot water. Partially soluble in cold water.

Odour Threshold The lowest known value is 180 ppm (Ethanol) .

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 5 Compilation date: 05/02/2019 Revision No: 3

Odour Not available.

PH 7.9 to 8.15 (Conc. (% w/w): 100) [Basic.]

Colour Brown. (Dark.)

Evaporation rate (butyl acetate = 1) 1.7 (Ethanol) compared to (n-BUTYL ACETATE=1)

Auto ignition temperature The lowest known value is 398.9°C (750°F) (Ethanol).

Flash point Closed cup: 70°C (158°F).

Viscosity Dynamic: 8000 to 11000 cP

Oxidizing Properties Not available.

## 9.2. Other information

Other information: Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

Avoid contact with acids

10.2 Hazardous Decomposition: High temperatures generate carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO).

10.3 Materials to be avoided: Acids.

### 10.2. Chemical stability Chemical stability: Stable under normal conditions.

Chemical stability: Stable under normal storage and handling conditions (see Section 7).

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid Conditions to avoid:

Conditions to avoid: Not applicable. For ideal storage conditions see section 7.

### 10.5. Incompatible materials

Materials to avoid: Oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

Haz. decomp. products: In a fire, hazardous decomposition products such as smoke and carbon monoxide may be produced.

## Section 11: Toxicological information

11.1. Ingredient Name	Information	on	toxicological	effects
<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Resorcinol	LD50	301 mg/kg	Oral	Rat
	LD50	200 mg/kg	Oral	Mouse
	LD50	3360 mg/kg	Dermal	Guinea pig
ETHANOL	LD50	7060 mg/kg	Oral	Rat
	LD50	6300 mg/kg	Oral	Rabbit
	LD50	3450 mg/kg	Oral	Mouse
	LDLo	1400 mg/kg	Oral	human
	LDLo	5500 mg/kg	Oral	Dog
	LC50	20000 (10 hours)	INHALATION	Rat
PHENOL	LD50	317 mg/kg	Oral	Rat
	LD50	270 mg/kg	Oral	Mouse
	LD50	500 mg/kg	Oral	Mammal
	LD50	630 mg/kg	Dermal	Rabbit
	LD50	669 mg/kg	Dermal	Rat
	LDLo	420 mg/kg	Oral	Rabbit
	LDLo	10 mg/kg	Oral	infant
	LDLo	80 mg/kg	Oral	Cat.
	LDLo	500 mg/kg	Oral	Rabbit
SODIUM HYDROXIDE	LDLo	500 mg/kg	Oral	Rabbit

### Local effects

**Skin irritation** Hazardous in case of skin contact (irritant).

**Eye irritation** Hazardous in case of eye contact (irritant).

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 6 Compilation date: 05/02/2019 Revision No: 3

**Chronic toxicity** Repeated or prolonged exposure is not known to aggravate medical condition.

**Specific effects**

**Carcinogenic Effects** Classified None. by NIOSH [Potassium hydroxide]. Classified None. by NIOSH [Ethanol]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanol]. Classified None. by NIOSH [Sodium hydroxide]. Classified None. by NIOSH [Phenol]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Phenol].

**Reproduction toxicity** Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Ethanol].

**Developmental and Teratogenic Effects**

**GENERAL INFORMATION :**

The product contains phenol-resorcinol-formaldehyde resin, unreacted phenol and resorcinol. Vapours may be irritating to respiratory tract and eyes. Inhalation may cause nose and throat irritation, coughing, hoarseness, lachrymation, headache and nausea.

The liquid is irritating to skin and may cause burns. Skin contact may cause smarting pain, loss of pain sensation and

later wounds. If the adhesive is not removed at once, there is a risk of absorption of phenol and resorcinol through skin, causing i.a systemic effects. Prolonged or repeated contact with adhesive/hardener mixture may cause hardening and cracking of skin and sensitization.

Contact with eyes causes intense pain. Great risk of burns and remaining eye damage.

Ingestion may cause burns with intense pain in mouth and throat, stomach pains, vomiting and systemic effects.

**Section 12: Ecological information**

Toxic Dose1- LD50 > 5000mg/kg (oralrat)

Toxic Conc – LC50 No available data

This chemical has good warning properties. Irritant of eyes and mucous membranes

Acute and Chronic Health Hazards – Mild dermatitis and allergic skin rash

In the EEC formaldehyde is classified as a Category 3 Carcinogen. This means that formaldehyde is not known to be carcinogenic to man (Category 1), or regarded to be carcinogenic to man (Category 2). Although at high concentrations, formaldehyde has been shown to cause cancer in rats, there is no convincing evidence that the substance induces cancer in man. For this reason formaldehyde has been placed in the lowest category 3.

Formaldehyde is classified as a Category 3 carcinogen (EEC).

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 7 Compilation date: 05/02/2019 Revision No: 3

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Ecotoxicity Data**

Ingredient Name ETHANOL Species Trout (LC50) Period 96 hours Result 14100 mg/l

GENERAL INFORMATION : The product contains resorcinol, which is hazardous to the environment. Very toxic to aquatic organisms.

Methods of disposal ; Waste of residues ; Contaminated packaging

Type: Hazardous chemical waste.

Location: not available

Classification: not available

Disposal.: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Storage: not available

Recycling: not available

Instructions for emptying of different packages are available.

Waste Classification Not applicable.

European Waste Catalogue (EWC) : 080409\*

Hazardous Waste: The classification of the product may meet the criteria for a hazardous waste

**Section 14: Transport information**

**14.1. UN number UN number:**

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**




**14.4. Packing group**

**14.5. Environmental hazards**

Environmentally hazardous: No Marine pollutant:

**14.6. Special precautions for user**

Special precautions: No special precautions.

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
ADR/RID Class	UN2810	Toxic liquid, organic, n.o.s. (Resorcinol, Phenol)	6.1	III		-
ADN Class	UN2810	Toxic liquid, organic, n.o.s. (Resorcinol, Phenol)	6.1	III		-
IMDG Class	UN2810	Toxic liquid, organic, n.o.s. (Resorcinol, Phenol)	6.1	III		<b>Emergency Schedules (EmS)</b> 6.1-02
IATA-DGR Class	UN2810	Toxic liquid, organic, n.o.s. (Resorcinol, Phenol)	6.1	III		-

**Section 15: Regulatory information**

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



Hazard symbol(s)

Harmful

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 7 Compilation date: 05/02/2019 Revision No: 3

**Risk Phrases** R21/22- Harmful in contact with skin and if swallowed.

R36/38- Irritating to eyes and skin.

**Safety Phrases** S23- Do not breathe vapour.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28- After contact with skin, wash immediately with plenty of water.

S51- Use only in well-ventilated areas.

**Contains** Phenol 203-632-7

Resorcinol 203-585-2

**Product Use** Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.

- Industrial applications.

-

## 15.2. Chemical Safety Assessment

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 453/2010. \* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and 3: H319:** Causes serious eye irritation. R36/38: Irritating to eyes and skin. R36: Irritating to eyes. R43: May cause sensitisation by skin contact. R50: Very toxic to aquatic organisms.

**Full text of R-Phrases with no.**

**Appearing in Section 2 - Europe**

R11- Highly flammable.

R24/25- Toxic in contact with skin and if swallowed.

R21/22- Harmful in contact with skin and if swallowed.

R22- Harmful if swallowed.

R34- Causes burns.

R35- Causes severe burns.

R36/38- Irritating to eyes and skin.

R50- Very toxic to aquatic organisms.

**: Text of classifications appearing in**

**Section 2 – Europe**

F - Highly flammable

T - Toxic

C - Corrosive

Xn - Harmful

Xi - Irritant

N - Dangerous for the environment.

**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.

[final page]

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk



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

**1:1 Product identifier**

**Product name:**

**CASCAPHEN 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**

**Company name:**

POLYVINE LTD  
VINE HOUSE,  
CHEDDAR BUSINESS PARK,  
WEDMORE ROAD,  
CHEDDAR BS27 3EB  
ENGLAND

Tel: 0044 845 017 1671

Fax: 0044 845 017 1670

Email: laboratory@polyvine.co.uk

**1.4. Emergency telephone number**

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Main hazards

contains: Resorcinol and Phenol UN. Number 2810. Harmful in contact with skin and if swallowed • Causes burns • Possible risk of irreversible effects • Do not breath vapour • Use only in well ventilated areas

P264: Wash contaminated skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor. P321: Specific treatment (see information on this label). P261: Avoid breathing dust. P272: Contaminated work clothing should not be allowed out of the workplace. P363: Wash contaminated clothing before reuse. P302+352: IF ON SKIN: Wash with plenty of soap and water. P333+313: If skin irritation or rash occurs: Get medical advice. P501: Dispose of contents/container to approved waste disposal site. P285: In case of inadequate ventilation wear respiratory protection. -----

**2.2. Label elements**

Label elements: Precautionary statements: P102: Keep out of reach of children. P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. P262: Do not get in eyes, on skin, or on clothing. P280: Wear protective gloves and eye protection. P302+350: IF ON SKIN: Gently wash with plenty of soap and water. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3. Other hazards**

PBT: This substance is not identified as a PBT substance.

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 2 Compilation date: 05/02/2019 Revision No: 3

**Section 3: Composition/information on ingredients**

Substance/Preparation Preparation  
Chemical name\*

Chemical name*	CAS No.	%	EC Number	Classification
Resorcinol	108-46-3	10-30	203-585-2	Xn; R22 Xi; R36/38 N; R50
Ethanol	64-17-5			
Phenol	108-95-2	5-10		F; R11 T; R24/25
Sodium hydroxide	1310-73-2	1-5	200-578-6	
			203-632-7	C; R34
<b>See Section 16 for the full text of the R Phrases declared above</b>		0.1-1		C; R35

\* Occupational Exposure Limit(s), if available, are listed in section 8

**3.2. Mixtures**

There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

**Section 4: First aid measures**

**4.1. Description of first aid measures**

contains: Resorcinol and Phenol UN. Number 2810. Harmful in contact with skin and if swallowed • Causes burns • Possible risk of irreversible effects • Do not breath vapour • Use only in well ventilated areas • Keep locked up and out of the reach of children • In case of contact with eyes, rinse immediately with plenty of water and seek medical advice • Wear suitable protective clothing, gloves and eye protection • In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**4.1:** Eye contact: Immediately flush with water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contacts the entire surface of eyes and lids. Seek immediate medical attention.

**4.2:** Skin contact : Wash affected area with soap and water for 15 minutes. Remove contaminated clothing. In cases of prolonged irritation, seek medical advise.

**4.3:** Inhalation : If inhalation causes adverse effects, remove to fresh air. If problem persists, seek medical advise

**4.4:** Ingestion : If swallowed, give large volumes of milk. Do not induce vomiting. Obtain medical attention.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

5.1: Extinguishing media :

Vaporizing liquid type, powder, foam or CO<sub>2</sub>, Water spray fog or mist. Very low risk of fire.

5.2: Hazardous Decomposition Products

High temperatures generate carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO)

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 3 Compilation date: 05/02/2019 Revision No: 3

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

**Exposure hazards:** In a fire, hazardous decomposition products such as smoke and Carbon Monoxide may be produced.

### 5.3. Advice for fire-fighters

Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do NOT allow run-off from fire fighting to enter drains or water courses.

## Section 6: Accidental release measures

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

: Ventilate the area. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing (see section 8).

### 6.2. Environmental precautions:

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

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

Shovel into suitable dry containers and re-use if possible.

Flush the area with water. Ensure residue does not gain access to watercourses.

### 6.4. Reference to other sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Use in well ventilated areas and avoid breathing of dust. Use an approved respirator if air is contaminated above acceptable levels.

When blended with water, the concentration of free formaldehyde of the reconstituted resin will increase to a value of 1 to 2 percent (w/w).

The reconstituted product must therefore be considered to be Harmful for Supply, with the following risk phrases 'Possible risk of irreversible effect and May cause sensitisation by skin contact.

Safety phrases as used in Section 15 should also be used.

Care must be taken when opening containers due to a small build up of formaldehyde gas.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. KEEP AWAY FROM FREEZING, minimum storage temperature 5 degrees C. Keep away from direct sunlight. Keep container tightly closed. Suitable packaging: Ideally, keep in original container. If transfer is necessary use glass or coated steel containers.

### 7.3. Specific end use(s)

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters Hazardous ingredients:

#### Ingredient Name Occupational Exposure Limits

#### Ethanol ACGIH (United States).

TWA: 1000 ppm

TWA: 1000 ppm 8 hour(s).

TWA: 1880 mg/m<sup>3</sup> 8 hour(s).

#### ACGIH TLV (United States, 2000). Notes: 1996 Adoption Refers to Appendix A -- Carcinogens.

TWA: 1880 mg/m<sup>3</sup> 8 hour(s).

TWA: 1000 ppm 8 hour(s).

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 4 Compilation date: 05/02/2019 Revision No: 3

**Phenol 2000/39/EC (Europe, 2000). Skin**

TWA: 2 ppm 8 hour(s).

TWA: 7,8 mg/m<sup>3</sup> 8 hour(s).

**80/1107/EEC (Europe, 2000). Skin Notes: Indicative**

TWA: 7,8 mg/m<sup>3</sup> 8 hour(s).

TWA: 2 ppm 8 hour(s).

**Sodium hydroxide ACGIH TLV (United States, 2000).**

CEIL: 2 mg/m<sup>3</sup>

**Recommended monitoring procedures**

**Personal protective equipment**

**Respiratory system** : Vapour respirator. as filter A2 Wear appropriate respirator when ventilation is inadequate.

**Skin and body** Overalls buttoned to the neck and wrist.

**Hands** Neoprene gloves. Nitrile gloves. Always check with the manufacturer of the gloves if their quality fulfils the requirements for the chemical composition.

**Eyes** Safety glasses with side shields.:

**8.2. Exposure controls**

**ENGINEERING CONTROLS:** The following exposure control techniques may be used to effectively minimise employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programmes are adequate.

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and airflow patterns should be provided to keep air contaminant concentrations below acceptable levels. Refer to section 2 Composition/Information on Ingredients which details specific exposure limits where applicable.

8.2. Personal Protection : Wear synthetic protective clothing (aprons and boots) if contact is likely. Where air contamination can exceed acceptable criteria, use approved respiratory protection equipment. Respirators should be chosen based upon the form and concentration of the air contaminants. Use goggles and face shield if contact is likely. Wear gloves as required to prevent skin contact.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state Liquid

Melting Point May start to solidify at -113.84°C (-172.9°F) based on data for: Ethanol.

Boiling Point The lowest known value is 78.4°C (173.1°F) (Ethanol).

Vapour Pressure The highest known value is 0.8 kPa (5.8 mmHg) (at 20°C) (Ethanol).

Density 1.115 g/cm<sup>3</sup>

Vapour Density The highest known value is 1.6 (Air = 1) (Ethanol).

Solubility Easily soluble in methanol, diethyl ether. Soluble in hot water. Partially soluble in cold water.

Odour Threshold The lowest known value is 180 ppm (Ethanol) .

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 5 Compilation date: 05/02/2019 Revision No: 3

Odour Not available.

PH 7.9 to 8.15 (Conc. (% w/w): 100) [Basic.]

Colour Brown. (Dark.)

Evaporation rate (butyl acetate = 1) 1.7 (Ethanol) compared to (n-BUTYL ACETATE=1)

Auto ignition temperature The lowest known value is 398.9°C (750°F) (Ethanol).

Flash point Closed cup: 70°C (158°F).

Viscosity Dynamic: 8000 to 11000 cP

Oxidizing Properties Not available.

## 9.2. Other information

Other information: Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

Avoid contact with acids

10.2 Hazardous Decomposition: High temperatures generate carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO).

10.3 Materials to be avoided: Acids.

### 10.2. Chemical stability Chemical stability: Stable under normal conditions.

Chemical stability: Stable under normal storage and handling conditions (see Section 7).

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid Conditions to avoid:

Conditions to avoid: Not applicable. For ideal storage conditions see section 7.

### 10.5. Incompatible materials

Materials to avoid: Oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

Haz. decomp. products: In a fire, hazardous decomposition products such as smoke and carbon monoxide may be produced.

## Section 11: Toxicological information

11.1. Information	on	toxicological	effects	
<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Resorcinol	LD50	301 mg/kg	Oral	Rat
	LD50	200 mg/kg	Oral	Mouse
	LD50	3360 mg/kg	Dermal	Guinea pig
ETHANOL	LD50	7060 mg/kg	Oral	Rat
	LD50	6300 mg/kg	Oral	Rabbit
	LD50	3450 mg/kg	Oral	Mouse
	LDLo	1400 mg/kg	Oral	human
	LDLo	5500 mg/kg	Oral	Dog
	LC50	20000 (10 hours)	INHALATION	Rat
PHENOL	LD50	317 mg/kg	Oral	Rat
	LD50	270 mg/kg	Oral	Mouse
	LD50	500 mg/kg	Oral	Mammal
	LD50	630 mg/kg	Dermal	Rabbit
	LD50	669 mg/kg	Dermal	Rat
	LDLo	420 mg/kg	Oral	Rabbit
	LDLo	10 mg/kg	Oral	infant
	LDLo	80 mg/kg	Oral	Cat.
	LDLo	500 mg/kg	Oral	Rabbit

### Local effects

**Skin irritation** Hazardous in case of skin contact (irritant).

**Eye irritation** Hazardous in case of eye contact (irritant).

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 6 Compilation date: 05/02/2019 Revision No: 3

**Chronic toxicity** Repeated or prolonged exposure is not known to aggravate medical condition.

**Specific effects**

**Carcinogenic Effects** Classified None. by NIOSH [Potassium hydroxide]. Classified None. by NIOSH [Ethanol]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanol]. Classified None. by NIOSH [Sodium hydroxide]. Classified None. by NIOSH [Phenol]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Phenol].

**Reproduction toxicity** Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Ethanol].

**Developmental and Teratogenic Effects**

**GENERAL INFORMATION :**

The product contains phenol-resorcinol-formaldehyde resin, unreacted phenol and resorcinol. Vapours may be irritating to respiratory tract and eyes. Inhalation may cause nose and throat irritation, coughing, hoarseness, lachrymation, headache and nausea.

The liquid is irritating to skin and may cause burns. Skin contact may cause smarting pain, loss of pain sensation and

later wounds. If the adhesive is not removed at once, there is a risk of absorption of phenol and resorcinol through skin, causing i.a systemic effects. Prolonged or repeated contact with adhesive/hardener mixture may cause hardening and cracking of skin and sensitization.

Contact with eyes causes intense pain. Great risk of burns and remaining eye damage.

Ingestion may cause burns with intense pain in mouth and throat, stomach pains, vomiting and systemic effects.

**Section 12: Ecological information**

Toxic Dose1- LD50	> 5000mg/kg (oralrat)
Toxic Conc – LC50	No available data

This chemical has good warning properties. Irritant of eyes and mucous membranes

Acute and Chronic Health Hazards – Mild dermatitis and allergic skin rash

In the EEC formaldehyde is classified as a Category 3 Carcinogen. This means that formaldehyde is not known to be carcinogenic to man (Category 1), or regarded to be carcinogenic to man (Category 2). Although at high concentrations, formaldehyde has been shown to cause cancer in rats, there is no convincing evidence that the substance induces cancer in man. For this reason formaldehyde has been placed in the lowest category 3. Formaldehyde is classified as a Category 3 carcinogen (EEC).

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 7 Compilation date: 05/02/2019 Revision No: 3

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Ecotoxicity Data**

Ingredient Name ETHANOL Species Trout (LC50) Period 96 hours Result 14100 mg/l

GENERAL INFORMATION : The product contains resorcinol, which is hazardous to the environment. Very toxic to aquatic organisms.

Methods of disposal ; Waste of residues ; Contaminated packaging

Type: Hazardous chemical waste.

Location: not available

Classification: not available

Disposal.: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Storage: not available

Recycling: not available

Instructions for emptying of different packages are available.

Waste Classification Not applicable.

European Waste Catalogue (EWC) : 080409\*

Hazardous Waste: The classification of the product may meet the criteria for a hazardous waste

**Section 14: Transport information**

**14.1. UN number UN number:**

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**




**14.4. Packing group**

**14.5. Environmental hazards**

Environmentally hazardous: No Marine pollutant:

**14.6. Special precautions for user**

Special precautions: No special precautions.

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
ADR/RID Class	UN2810	Toxic liquid, organic, n.o.s. (Resorcinol, Phenol)	6.1	III		-
ADN Class	UN2810	Toxic liquid, organic, n.o.s. (Resorcinol, Phenol)	6.1	III		-
IMDG Class	UN2810	Toxic liquid, organic, n.o.s. (Resorcinol, Phenol)	6.1	III		<b>Emergency Schedules (EmS)</b> 6.1-02
IATA-DGR Class	UN2810	Toxic liquid, organic, n.o.s. (Resorcinol, Phenol)	6.1	III		-

**Section 15: Regulatory information**

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



Hazard symbol(s)

Harmful

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk

SAFETY DATA SHEET  
POLYVINE CASCAPHEN

Page: 7 Compilation date: 05/02/2019 Revision No: 3

**Risk Phrases** R21/22- Harmful in contact with skin and if swallowed.

R36/38- Irritating to eyes and skin.

**Safety Phrases** S23- Do not breathe vapour.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28- After contact with skin, wash immediately with plenty of water.

S51- Use only in well-ventilated areas.

**Contains** Phenol 203-632-7

Resorcinol 203-585-2

**Product Use** Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.

- Industrial applications.

-

## 15.2. Chemical Safety Assessment

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 453/2010. \* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and 3: H319:** Causes serious eye irritation. R36/38: Irritating to eyes and skin. R36: Irritating to eyes. R43: May cause sensitisation by skin contact. R50: Very toxic to aquatic organisms.

**Full text of R-Phrases with no.**

**Appearing in Section 2 - Europe**

R11- Highly flammable.

R24/25- Toxic in contact with skin and if swallowed.

R21/22- Harmful in contact with skin and if swallowed.

R22- Harmful if swallowed.

R34- Causes burns.

R35- Causes severe burns.

R36/38- Irritating to eyes and skin.

R50- Very toxic to aquatic organisms.

**: Text of classifications appearing in**

**Section 2 – Europe**

F - Highly flammable

T - Toxic

C - Corrosive

Xn - Harmful

Xi - Irritant

N - Dangerous for the environment.

**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.

[final page]

Further information may be obtained from:

Polyvine Limited, Vine House, Cheddar Business Park, Wedmore Road, Cheddar, BS27 3EB

Tel 01934 740305 • www.polyvine.com • email info@polyvine.co.uk