

# SAFETY DATA SHEET

## Acrylic Resin Solution

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

#### 1.1. Product identifier

Product name Acrylic Resin Solution

Product number Synocryl 9122X

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

Identified uses Paint.

Uses advised against Keep away from food, drink and animal feeding stuffs.

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

Company name: ZOIC PalaeoTech

Orchard House

Longburton

Sherborne

DT9 5PH

Tel: 01963 210308

Email: [info@zoicpalaeotech.co.uk](mailto:info@zoicpalaeotech.co.uk)

#### 1.4. Emergency telephone number

Emergency telephone 999

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373

Environmental hazards Not Classified

#### 2.2. Label elements

##### Hazard pictograms



Signal word

Warning

## Acrylic Resin Solution

<b>Hazard statements</b>	H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.
<b>Precautionary statements</b>	P260 Do not breathe vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P501 Dispose of contents/ container in accordance with national regulations.
<b>Supplemental label information</b>	RCH002a Restricted to professional users.
<b>Contains</b>	XYLENE, ETHYLBENZENE
<b>Supplementary precautionary statements</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTRE/doctor if you feel unwell. P314 Get medical advice/ attention if you feel unwell. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

### 2.3. Other hazards

None Identified

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

## Acrylic Resin Solution

<b>XYLENE</b> <span style="float: right;"><b>40-60%</b></span> CAS number: 1330-20-7                      EC number: 215-535-7                      REACH registration number: 01-2119488216-32-0000
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315
<b>ETHYLBENZENE</b> <span style="float: right;"><b>5-10%</b></span> CAS number: 100-41-4                      EC number: 202-849-4
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304
<b>TOLUENE</b> <span style="float: right;"><b>&lt; 1%</b></span> CAS number: 108-88-3                      EC number: 203-625-9
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304

The full text for all hazard statements is displayed in Section 16.

**Composition comments**                      The data shown are in accordance with the latest EC Directives.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

**General information**                      Effects may be delayed. Keep affected person under observation.

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

**Notes for the doctor**                      No specific recommendations. If in doubt, get medical attention promptly.

# Acrylic Resin Solution

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with the following media: Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc.

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

**Specific hazards** Irritating gases or vapours. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>. Oxides of carbon. Oxides of nitrogen.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Keep combustible materials away from spillage. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

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

**Storage precautions** Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

**XYLENE**

# Acrylic Resin Solution

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup>

Sk

## ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m<sup>3</sup>

Sk

## TOLUENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

Sk = Can be absorbed through the skin.

### Ingredient comments

WEL = Workplace Exposure Limits

## XYLENE (CAS: 1330-20-7)

### Ingredient comments

WEL = Workplace Exposure Limits

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. All handling should only take place in well-ventilated areas.

### Eye/face protection

Wear chemical splash goggles.

### Hand protection

Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Rubber (natural, latex).

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

### Respiratory protection

Wear a respirator fitted with the following cartridge: Organic vapour filter.

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

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

#### Appearance

Clear liquid.

#### Colour

Water-white.

#### Odour

Characteristic.

#### Initial boiling point and range

138-142°C @ 1013 hPa

#### Flash point

25°C Closed cup.

## Acrylic Resin Solution

Upper/lower flammability or explosive limits Lower flammable/explosive limit: 8 g/m<sup>3</sup>

Relative density 0.93 g/ml @ 23°C

### 9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 550 g/litre.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stability No particular stability concerns.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

### 10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.

### 10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - dermal

ATE dermal (mg/kg) 2,131.78

#### Acute toxicity - inhalation

ATE inhalation (gases ppm) 7,614.21

ATE inhalation (vapours mg/l) 18.61

ATE inhalation (dusts/mists mg/l) 2.54

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Harmful by inhalation.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Harmful in contact with skin.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

## SECTION 12: Ecological information

# Acrylic Resin Solution

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

## 12.1. Toxicity

**Toxicity** Avoid releasing into the environment.

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

## 12.4. Mobility in soil

**Mobility** The product hardens to a solid, immobile substance.

## 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** No data available.

## 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**Road transport notes** Not regulated.

**Rail transport notes** Not regulated.

### 14.1. UN number

**UN No. (IMDG)** 1866

**UN No. (ICAO)** 1866

### 14.2. UN proper shipping name

**Proper shipping name (IMDG)** RESIN SOLUTION

**Proper shipping name (ICAO)** RESIN SOLUTION

### 14.3. Transport hazard class(es)

**IMDG class** 3

**ICAO class/division** 3

**Transport labels**



### 14.4. Packing group

# Acrylic Resin Solution

IMDG packing group III

ICAO packing group III

## 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

## 14.6. Special precautions for user

EmS F-E, S-E

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not relevant.

Annex II of MARPOL 73/78  
and the IBC Code

## **SECTION 15: Regulatory information**

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

Revision date 07/05/2016

Revision 4

**Hazard statements in full**

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.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.  
H373 May cause damage to organs through prolonged or repeated exposure.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.