

SAFETY DATA SHEET BELZONA® 1121 (SUPER XL-METAL) BASE

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

1.1. Product identifier

Product name BELZONA® 1121 (SUPER XL-METAL) BASE

Product number SN2638

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

Identified uses Engineering grade repair system with extended working life for repairing and rebuilding

machinery and equipment. For industrial use only.

appropriate Instructions For Use (IFU) leaflet.

1.3. Details of the supplier of the safety data sheet

Supplier Belzona Polymerics Limited

Claro Road, Harrogate

HG1 4DS United Kingdom +44 1423 567641 sds@belzona.com

Manufacturer Belzona Polymerics Limited

Claro Road, Harrogate

HG1 4DS United Kingdom +44 1423 567641 sds@belzona.com

1.4. Emergency telephone number

Emergency telephone ChemTel: +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 3 - H412

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

2.2. Label elements

Pictogram



Signal word Warning

BELZONA® 1121 (SUPER XL-METAL) BASE

Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing and eye protection.

P501 Dispose of contents/ container in accordance with national regulations.

Contains EPOXY PHENOL NOVOLAC RESIN, EPOXY RESIN (Number average MW <= 700)

2.3. Other hazards

Based on information received from our suppliers no PBT or vPvB substances are intentionally added to this product.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EPOXY RESIN (Number average MW <= 700)

CAS number: 25068-38-6 EC number: 500-033-5 REACH registration number: 01-

2119456619-26-xxxx

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

EPOXY PHENOL NOVOLAC RESIN

3-13%

3-13%

CAS number: 28064-14-4 EC number: 500-108-2 REACH registration number: 01-

2119454392-40-XXXX

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything

by mouth to an unconscious person.

Inhalation Remove to fresh air. Keep the patient warm and at rest. Give nothing by mouth.

If accidentally swallowed obtain immediate medical attention. Keep at rest. Rinse mouth with

plenty of water. Do NOT induce vomiting.

Skin contact Remove contaminated clothing. Wash skin thoroughly with soap and water or use a

proprietary skin cleaner. Do NOT use solvents or thinners. If irritation or inflammation

persists, seek medical attention.

Eye contact Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 15

minutes, holding the eyelids apart, and seek medical advice.

BELZONA® 1121 (SUPER XL-METAL) BASE

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

Skin contact Prolonged or repeated contact with the skin or mucous membrane may result in irritant

symptoms such as redness, blistering or dermatitis. Onset of symptoms may be delayed. May

cause an allergic skin reaction.

Eye contact Irritating to eyes.

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

Notes for the doctor None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use: sand, foam, carbon dioxide, chemical powder or water fog for larger fires. Do NOT use

water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion

products

In a fire, hazardous decomposition products such as smoke, carbon monoxide and carbon

dioxide may be produced.

5.3. Advice for firefighters

Protective actions during

firefighting

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). 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 watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Prevent product entering drains or sewers. If the product enters drains or sewers in large

quantities, the local Water Company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the appropriate National regulating agency.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Scrape the majority of the product into a suitable labelled container. Cover the spill area with

sand or other suitable inert material and sweep up into the container. Clean surfaces down with a water and detergent mixture. Do not allow spilled product or the associated washings to

enter surface water drains or watercourses.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13. For information on

National regulating agencies refer to Section 16.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

BELZONA® 1121 (SUPER XL-METAL) BASE

Usage precautions

Vapours may collect in the container headspace during transit or prolonged storage. Avoid the inhalation of vapour when opening the container. Where possible open containers and mix components in a well ventilated place away from the application area. Avoid skin and eye contact. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Always keep in containers made of the same material as the supply container. Good housekeeping methods and regular safe removal of waste materials should be observed. FIRE/EXPLOSION This product is combustible. Exclude sources of heat, sparks and open flame.

Advice on general occupational hygiene

Wash at the end of each work shift and before eating, smoking and using the toilet. Ensure eye wash facilities (fountain, bottle, vials, etc.) are readily available. Do not put contaminated articles or equipment e.g. spatulas, applicators, brushes, cloths etc., into pockets. Where necessary, contaminated work clothing and shoes should be removed to prevent cross contamination of surfaces and the risk of inadvertent skin contact and ingestion.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Observe the label precautions. Store between 5 °C and 30 °C unless otherwise stated in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Store separately from oxidising agents and strongly alkaline and strongly acidic materials. ENVIRONMENTAL STORAGE PRECAUTIONS Spillage, incorrect storage of chemicals or waste materials or unsuitable disposal activities can result in pollutants seeping through the soil, causing serious harm to groundwater- which is a vital source of drinking water. All wastes, especially liquid wastes, must be securely stored on site in designated areas that are isolated from surface drains and bunded to contain any spillages.

7.3. Specific end use(s)

Specific end use(s)

Application by plastic applicator or spatula provided. Mix with Solidifier component before use. Please refer to the relevant Belzona® Instructions For Use for further information.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits known for ingredient(s).

8.2. Exposure controls

Appropriate engineering controls

Open containers in a well ventilated area.

Eye/face protection

It is recommended that eye protection, for example safety spectacles or goggles are worn at all times during the handling and use of this material. Eye protection should be selected in accordance with EN 166 Personal eye protection. During subsequent machining, grinding, abrasion or removal of this product appropriate eye protection should be selected according to the type of tools or equipment used.

Hand protection

Hand protection should be selected in accordance with EN 374 Protective gloves against chemicals. The breakthrough time of the gloves selected should exceed the expected use period. Where this is not possible gloves should be changed in good time, and in any case before the breakthrough time is exceeded. If any doubt exists, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred. SPECIFIC RECOMMENDATIONS Wear protective gloves made of the following material: Neoprene. Nitrile rubber. STANDARD APPLICATIONS Medium-heavy weight gauntlet type gloves that provide wrist protection are suitable. EMERGENCY REPAIRS OR APPLICATION OF SINGLE UNITS Light weight disposable gloves are normally suitable.

BELZONA® 1121 (SUPER XL-METAL) BASE

Other skin and body

protection

STANDARD APPLICATIONS Synthetic polyethylene coveralls such as the Tyvek PROTECH® or equivalent coveralls manufactured to EN 13034 Type 6, Protective clothing against liquid chemicals. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. EMERGENCY REPAIRS OR APPLICATION OF SINGLE UNITS Cotton overalls are normally suitable.

Respiratory protection

Respiratory protection is not normally required, but the hazards of the Solidifier component should be considered for mixing and application purposes.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Paste.

Colour Dark grey.

Odour Epoxy.

Odour threshold Not applicable.

pH Not applicable.

Melting point Not available.

Initial boiling point and range >200°C/>392°F @ 760 mm Hg

Flash point >110°C/>230°F CC (Closed cup).

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not applicable.

Vapour pressure Low.
Vapour density > 1

Relative density 2.83 - 2.93 @ 20°C/68°F

Solubility(ies) Immiscible with water.

Partition coefficient Not available.

Auto-ignition temperature >300°C/>572°F

Decomposition Temperature >200°C/>392°F

Viscosity Not available.

Explosive properties Not applicable.

Oxidising properties Not applicable.

9.2. Other information

Other information This section contains typical values for Health, Safety and Environmental guidance only and is

not intended to represent a technical specification for the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

BELZONA® 1121 (SUPER XL-METAL) BASE

Stability Stable under recommended storage and handling conditions (see Section 7).

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

No hazardous reactions expected when stored and handled as recommended.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid Keep away from oxidising agents and strongly alkaline and strongly acidic materials to

prevent the possibility of exothermic reaction.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD50) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on the properties of the epoxy constituent(s) and considering toxicological data on

similar preparations, this preparation may be a skin sensitiser. Repeated skin contact may

lead to sensitisation with possibly cross-sensitisation to other epoxies.

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity Not listed.

Reproductive toxicity

NTP carcinogenicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Not listed.

BELZONA® 1121 (SUPER XL-METAL) BASE

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Route of entry Skin and/or eye contact

Medical considerations Skin contact constitutes a pronounced hazard. Persons with a history of skin sensitisation

problems should only be employed in processes in which this product is used under

appropriate medical supervision.

SECTION 12: Ecological Information

Ecotoxicity There is no data on the product itself. The following information is provided on the basis of the

individual component data available.

12.1. Toxicity

Toxicity Based on the epoxy resin content, this product is expected to have experimental

LC50/EC50/IC50 values between 10 and 100 mg/l in most sensitive species.

12.2. Persistence and degradability

Persistence and degradability Based on the epoxy resin content, this product is not expected to be rapidly biodegradable

according to OECD/EC guidelines.

12.3. Bioaccumulative potential

Bioaccumulative potential Based on the epoxy resin content, this product is expected to bioaccumulate.

Partition coefficient Not available.

12.4. Mobility in soil

Mobility There is no data available on the product itself.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

Based on information received from our suppliers no PBT or vPvB substances are

intentionally added to this product.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

BELZONA® 1121 (SUPER XL-METAL) BASE

Disposal methods

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Controlled wastes include non-hazardous industrial and hazardous chemical wastes. All controlled wastes should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. In addition, hazardous chemical wastes should be disposed of in accordance with the Hazardous Waste Regulations. When in doubt, using information provided in this safety data sheet, advice should be obtained from the National regulating agency whether the Hazardous Waste Regulations apply. Refer to information sources listed in Section 16. COMPONENT DISPOSAL TRANSIT PACKAGING: shrink or stretch wrap, boxes and fittings that have not been contaminated with product should be re-used or recycled. UNREACTED PRODUCT and empty uncleaned containers should be disposed of as hazardous chemical waste. REACTED PRODUCT, contaminated mixing boards, spatulas, applicators, brushes, nominally empty containers and mixing bowls- once fully cured- should be disposed of as non-hazardous waste.

Waste class

List of Waste Code: 08 04 09* *Hazardous waste pursuant to Directive 91/689/EEC. The LoW code quoted in this section is a general entry. LoW codes should be assigned based on the end use of the product. Where a more specific code is available it should be used in preference to the code given above. Where in doubt refer to the List of Wastes, your local licensed waste contractor or the National regulating agency. Refer to information sources listed in Section 16.

SECTION 14: Transport information

General

Not classified for transport under current National and International Regulations. Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not carried in bulk.

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

BELZONA® 1121 (SUPER XL-METAL) BASE

National regulations The provisions of the Health and Safety at Work Act and the Control of Substances

Hazardous to Health Regulations with amendments apply to the use of this product at work.

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. In accordance

with Regulation (EC) No 453/2010.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information The information contained within this safety data sheet does not constitute the users own

assessment of workplace risks as required by other health and safety legislation. The information contained within this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical

performance or suitability for particular applications.

Northern Ireland- Environment and Heritage Service.

Key literature references and sources for data

Provision and Use of Personal Protective Equipment Regulations 1992 (SI 1992: 2932). PPG18: Control of Spillages and fire fighting run-off. HSG53 The selection, use and maintenance of respiratory protective equipment, as amended. HSG97 A step by step guide to COSHH assessment. UK ENVIRONMENTAL REGULATING AGENCIES: England and Wales- Environment Agency; Scotland- Scottish Environment Protection Agency (SEPA);

Classification procedures Where the

according to Regulation (EC)

1272/2008

Where there is no test data available for the mixture, the classification has been determined based on the individual component hazard data in accordance with EC 1272/2008.

Training advice For further information please contact your supplier, Belzona consultant or Belzona direct.

Revision comments REVISION. This safety data sheet has been revised in the following Section(s): All Sections.

Please observe the REVISION DATE. Should you be reading a safety data sheet that is more than 24 months old or have concerns over its validity, please contact your local Belzona consultant or Belzona direct (sds@belzona.com) and the most current information will be sent

to you.

Revision date 03/11/2016

Revision 3.2

SDS number 10944

SDS status English. Approved.

Hazard statements in full H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.