SAFETY DATA SHEET
BELZONA® 1341N (SUPERMETALGLIDE) BASE

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name BELZONA® 1341N (SUPERMETALGLIDE) BASE

Product No. SN2765, SN2766

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

Application A drinking water approved coating system for improving the efficiency of fluid handling systems and protecting metals from the effects of erosion-corrosion. For industrial use only.

Uses advised against The product should not be used for purposes other than those recommended in the appropriate Instructions For Use (IFU) leaflet.

Details of the supplier of the safety data sheet

Supplier

Rezitech Services
9 Southfork Drive
Kilsyth 3137, Victoria
AUSTRALIA
+61 3 8720 8600

Reptech Corporation Ltd
503 Great South Road
Penrose, Auckland 1061
NEW ZEALAND
0800 (REPTECH) 737832

Manufacturer

Belzona Polymerics Limited
Claro Road, Harrogate
HG1 4DS
United Kingdom
+44 1423 567641
sds@belzona.com

Emergency telephone number

Emergency telephone Australia: Steven Hunt +61 404 843 835
New Zealand: National Poisons Centre 0800 764 766

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Not Classified

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

Label elements

Pictogram

Signal word Danger

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Hazard statements H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements P260 Do not breathe vapour/ spray.
P280 Wear protective clothing, gloves, eye and face protection.
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
P313 Get medical attention.
P501 Dispose of contents/ container in accordance with national regulations.

Contains ISOPHORONEDIAMINE, LIQUID EPOXY RESIN AND ISOPHORONEDIAMINE ADDUCT

Other hazards

HSNO classification: 6.5B 8.2C 8.3A

SECTION 3: Composition and information on ingredients

Mixtures

BENZYL ALCOHOL **10-30%**

CAS number: 100-51-6

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H332
Eye Irrit. 2A - H319

ISOPHORONEDIAMINE **5-10%**

CAS number: 2855-13-2

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

LIQUID EPOXY RESIN AND ISOPHORONEDIAMINE ADDUCT **5-10%**

CAS number: 68609-08-5

Classification
Skin Corr. 1B - H314
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

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

SECTION 4: First aid measures

Description of first aid measures

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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.

Ingestion 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. If material is injected under the skin, seek immediate medical attention. Even when there are few or no symptoms do not hesitate to refer the casualty to hospital.

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.

Most important symptoms and effects, both acute and delayed

General information Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems.

Inhalation Exposure to vapours may result in irritation of the mucous membrane and the respiratory system; in severe cases burns may occur. Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Ingestion May cause chemical burns in mouth, oesophagus and stomach.

Skin contact Skin contact causes chemical burns. Symptoms may include pain, severe local redness and tissue damage. May cause allergic skin reaction. Release during high pressure use may result in injection of material into the skin causing local necrosis.

Eye contact Contact with eyes may cause severe irritation with corneal injury, which may result in permanent impairment of vision.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor None.

SECTION 5: Firefighting measures

Extinguishing media

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

Special hazards arising from the substance or mixture

Hazardous combustion products In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen and ammonia may be produced.

Advice for firefighters

Protective actions during firefighting Fire will produce dense black smoke containing hazardous products of combustion. 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

Personal precautions, protective equipment and emergency procedures

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Personal precautions Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Keep up-wind of spill to avoid breathing vapours. Do not get on skin or in eyes.

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.

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.

Reference to other sections

Reference to other sections For waste disposal, see section 13. Collect and dispose of spillage as indicated in Section 13. .

SECTION 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Usage precautions Vapours may collect in the container headspace during transit or prolonged storage. Do not breathe vapour when opening the container. Keep the container tightly closed when not in use. Where possible open containers and mix components in a well ventilated place away from the application area. Do not breathe spray during application. Exclude non-essential personnel. Minimise the number of employees exposed and the duration of their exposure. Do not get on skin or in eyes. 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. Ensure emergency equipment (for fires, spills, leaks, etc.) is readily available. FIRE/EXPLOSION This product is combustible. Exclude sources of heat, sparks and open flame. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards. SPECIAL When applying the product by heated airless spray, ensure that temperatures are controlled to the minimum that achieves acceptable atomisation. Ensure that containers are loosely covered during pre-heating and application. Ammonia may be given off when heated. Do not breathe vapours/mists.

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.

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 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.

Specific end use(s)

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Specific end use(s) Application by stiff bristled brush or plastic applicator provided. May also be applied by spray. Mix with Solidifier component before use. Please refer to the relevant Belzona® Instructions For Use for further information.

SECTION 8: Exposure controls and personal protection

Control parameters

Occupational exposure limits

In the absence of specific limits in EH40 for individual substances and where there is the possibility of exposure to particulates from sprayed products the following OEL's should be used:

respirable particulates 4 mg/m³; total inhalable particulates 10mg/m³

Exposure controls

Appropriate engineering controls STANDARD APPLICATIONS Use in well ventilated areas or provide adequate mechanical ventilation. SPRAY APPLICATIONS Where reasonably practicable adequate ventilation should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn (see 'Respiratory protection' below).

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. SPRAY APPLICATIONS Use protective gloves made of: neoprene or nitrile during pre and post-application handling. During application use protective gloves made of neoprene/nitrile and/or suitable heat resistant gloves such as Kevlar®. APPLICATION OF SMALL QUANTITIES Light weight disposable gloves are normally suitable.

Other skin and body protection STANDARD APPLICATIONS\SPRAY APPLICATIONS Synthetic polyethylene coveralls such as the Tyvek PRO-TECH® 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. APPLICATION OF SMALL QUANTITIES Cotton overalls are normally suitable.

Respiratory protection	It is essential that the concentration of the contaminant(s) in the application environment does not exceed the applicable Occupational Exposure Limit(s) (OELs) multiplied by the Assigned Protection Factor (APF) quoted for the respiratory protective equipment selected. STANDARD APPLICATIONS Respiratory protection is not normally required but it may be required when this product is used in confined spaces or where adequate ventilation cannot be achieved. Where necessary, it is recommended that respiratory protective equipment that complies with EN 136 (full face mask) or EN 140 (half face mask) should be worn in combination with an organic/inorganic vapours, acid gases and ammonia cartridge (ABEK1). SPRAY APPLICATIONS Where necessary, it is recommended that respiratory protective equipment that complies with EN 14594 (compressed airline breathing apparatus) is worn if exposure to the applicator or other people nearby cannot be controlled to below the occupational exposure limit and engineering methods cannot reasonably be improved.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Thixotropic liquid.
Colour	Blue or Grey
Odour	Amine.
Odour threshold	Not applicable.
pH	Alkaline.
Melting point	Not available.
Initial boiling point and range	>200°C/>392°F @ 100 kPa
Flash point	>93°C/>200°F CC (Closed cup).
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Flammability Limit - Lower(%)	Not applicable.
Vapour pressure	< 1.38 kPa @ 21°C/70°F
Vapour density	> 1
Relative density	1.55 - 1.65 @ 20°C/68°F
Solubility Value (g/100g H2O 20°C)	Immiscible with water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
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

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Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
Materials to avoid	Keep away from oxidising agents and strongly acidic materials to prevent the possibility of exothermic reaction.
Hazardous decomposition products	None at ambient temperatures. In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen and ammonia may be produced.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data	Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation	Skin corrosive; corrosivity to eyes is assumed. No testing is needed.

Respiratory sensitisation

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

Skin sensitisation

Skin sensitisation	May cause skin sensitisation or allergic reactions in sensitive individuals.

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.
NTP carcinogenicity	Not listed.

Reproductive toxicity

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

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.

Toxicity Based on the individual component data, the products LC50/EC50/IC50 are expected to be greater than 100 mg/l in most sensitive species.

Persistence and degradability

Persistence and degradability This product is not expected to present an environmental hazard under current legislation.

Bioaccumulative potential

Bioaccumulative Potential This product is not expected to present an environmental hazard under current legislation.

Partition coefficient Not available.

Mobility in soil

Mobility There is no data available on the product itself.

Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

Waste treatment methods

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.

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Waste class List of Waste (LoW) code: 08 01 11*. *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 Labelling and packaging requirements may vary with pack and load size. Please refer to the current transport 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.

UN number

UN No. (ADG) 2289

UN No. (IMDG) 2289

UN No. (ICAO) 2289

UN proper shipping name

Proper shipping name (ADG) Isophoronediamine mixture

Proper shipping name (IMDG) Isophoronediamine mixture

Proper shipping name (ICAO) Isophoronediamine mixture

Transport hazard class(es)

ADG class 8

IMDG class 8

ICAO class/division 8

Packing group

ADG packing group III

IMDG packing group III

ICAO packing group III

Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not carried in bulk.

SECTION 15: Regulatory information

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

National regulations GROUP STANDARD: Surface coatings and colourants (Corrosive)
HSNO APPROVAL NUMBER: HSR002658

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Inventories

Australia - AICS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

SECTION 16: Any other relevant 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. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant National legislation are complied with. 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.
Key literature references and sources for data	. . . . .
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): 1, 2, 3, 7, 8, 9, 12, 13, 16, 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	5/07/2017
Revision	8.2
SDS No.	10472
SDS status	English. Approved.
Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H412 Harmful to aquatic life with long lasting effects.