

SAFETY DATA SHEET BELZONA® 1392 (CERAMIC HT2) SOLIDIFIER

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

1.1. Product identifier

Product name BELZONA® 1392 (CERAMIC HT2) SOLIDIFIER

Product number SN2406

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

Identified uses High temperature acid resistant coating. 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 VelocityEHS: +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE

3 - H335 STOT RE 2 - H373

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

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

2.2. Label elements

Hazard pictograms









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Signal word Danger

Hazard statements H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P260 Do not breathe vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing and eye protection.

P303+P361+P353 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. P310 Immediately call a POISON CENTRE or doctor.

Contains 1,2-CYCLOHEXANEDIAMINE, N-TALLOW-1,3-DIAMINOPROPANE

2.3. Other hazards

Based on information received from our suppliers no PBT or vPvB substances are intentionally added to this product. This product does not contain components considered to have endocrine disrupting properties at \geq 0.1%.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

1,2-CYCLOHEXANEDIAMINE		60-92%
CAS number: 694-83-7	EC number: 211-776-7	
Classification		
Classification		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		
STOT SE 3 - H335		

N-TALLOW-1,3-DIAMINOPROPANE 5-10%

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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

SECTION 4: First aid measures

4.1. 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.

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.

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

Inhalation Exposure to vapours may result in irritation of the mucous membrane and the respiratory

system; in severe cases burns may occur.

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

Skin contact Contact with skin or any living tissue may cause burns, in severe cases complete tissue

destruction may occur.

Eye contact Contact with eyes may cause severe irritation with corneal injury, which may result in

permanent impairment of vision.

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

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, carbon

dioxide, oxides of nitrogen and ammonia may be produced.

5.3. 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

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Exclude non-essential personnel. Keep up-wind of spill to avoid breathing vapours. Do not get

on skin or in eyes.

6.2. Environmental precautions

Environmental precautions Prevent spills from 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

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Methods for cleaning up

Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place into a suitable labelled 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

Usage precautions

Keep the container tightly closed when not in use. Vapours may collect in the container headspace during transit or prolonged storage. Do not breathe vapour when opening the container. Where possible open containers and mix components in a well ventilated place away from the application area. 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 methods and regular safe removal of waste materials should be observed.

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 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 stiff bristled brush or plastic applicator provided. Mix with Base 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

Ingredient comments

Exposure to chemicals assigned occupational exposure limits (OELs) should be controlled using the most effective and reliable measures, proportional to the health risk, which minimise their escape and spread. All relevant exposure routes should be taken into account. When personal protective equipment, including respiratory protective equipment, is used to control exposure to hazardous substances it must be selected to meet the requirements of the COSHH Regulations.

1,2-CYCLOHEXANEDIAMINE (CAS: 694-83-7)

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DNEL Workers - Dermal; Long term systemic effects: 1.5 mg/kg/day

Workers - Inhalation; Short term local effects: 0.5 mg/m³ Workers - Inhalation; Long term local effects: 0.25 mg/m³

General population - Oral; Long term systemic effects: 0.75 mg/kg/day General population - Dermal; Long term systemic effects: 0.75 mg/kg/day General population - Inhalation; Short term local effects: 0.25 mg/m³ General population - Inhalation; Long term local effects: 0.125 mg/m³

PNEC STP; 1250 mg/l

Soil; 0.117 mg/kg

Intermittent release; 0.42 mg/l Fresh water; 0.42 mg/l marine water; 0.042 mg/l

Sediment (Freshwater); 1.82 mg/kg Sediment (Marinewater); 0.182 mg/kg

N-TALLOW-1,3-DIAMINOPROPANE (CAS: 61791-55-7)

DNEL Workers - Inhalation; Long term systemic effects: 0.035 mg/m³

Workers - Dermal; Long term systemic effects: 0.01 mg/kg/day

PNEC Fresh water; 0.010 mg/l

Sediment (Freshwater); 1.72 mg/kg

marine water; 0.001 mg/l

Sediment (Marinewater); 0.172 mg/kg Intermittent release; 0.00148 mg/l

STP; 0.251 mg/l Soil; 10 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Use in well ventilated areas or provide adequate mechanical ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Where these controls are not sufficient to maintain concentrations of particulates and/or vapours to an acceptable level, 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.

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: Nitrile rubber. Medium-heavy weight gauntlet type gloves that provide wrist protection are suitable.

Other skin and body protection

STANDARD 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.

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Hygiene measures 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.

Respiratory protection Respiratory protection complying with an approved standard should be worn if a risk

assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. 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. 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). Where the application environment is likely to be contaminated by significant concentrations of dust then the appropriate particulate prefilter (N-, R- or, P-series) should be worn in combination with the above. It is essential that the facepiece is correctly fitted and the filter is changed in accordance with the manufacturer's instructions. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Amber.

Appearance Liquid.

Odour Amine.

Odour threshold Not applicable.

pH Alkaline.

Melting point Not available.

Initial boiling point and range >188°C/>370°F @ 100 kPa

Flash point 77°C/170°F Closed cup.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Colour

Not applicable.

Vapour pressure ~ 0.05 kPa @ 20°C/68°F

Vapour density > 1

Relative density 0.89 - 0.99 @ 20°C/68°F

Solubility(ies) Partially miscible with water.

Partition coefficient log Kow: ≥ 4

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity Not available.

Explosive properties Not applicable.

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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

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Under normal conditions of storage and use, no hazardous reactions will occur.

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. Keep away from oxidising agents and strongly

acidic materials to prevent the possibility of exothermic reaction.

10.6. Hazardous decomposition products

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

11.1. Information on toxicological effects

Toxicological effectsThere is no data on the product itself. The following information is provided on the basis of the

individual component data available.

Acute toxicity - oral

Notes (oral LD₅o) Harmful if swallowed. LD₅o >1000 mg/kg, Oral,

Acute toxicity - dermal

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

Acute toxicity - inhalation

Notes (inhalation LC₅o) Harmful by inhalation. LD₅o >3.0 mg/l, Inhalation,

Skin corrosion/irritation

Animal data Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation May cause blurred vision and serious eye damage.

Respiratory sensitisation

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

Skin sensitisation

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

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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

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

Not listed. IARC carcinogenicity Not listed.

NTP carcinogenicity

Reproductive toxicity

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

Reproductive toxicity -

Based on available data the classification criteria are not met.

development

Specific target organ toxicity - single exposure

STOT - single exposure Respiratory irritant effects that impair function with symptoms such as cough, pain, choking,

and breathing difficulties.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Aspiration hazard

Aspiration hazard Not relevant.

General information This product does not contain components considered to have endocrine disrupting properties

at ≥ 0.1%.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Toxicological information on ingredients.

1,2-CYCLOHEXANEDIAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅o 1,170.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,870.0

mg/kg)

Rat **Species**

Acute toxicity - inhalation

Acute toxicity inhalation 3.2

(LC50 dust/mist mg/l)

Species Rat

N-TALLOW-1,3-DIAMINOPROPANE

Acute toxicity - oral

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Acute toxicity oral (LD50

mg/kg)

Species Rat

Specific target organ toxicity - repeated exposure

945.0

STOT - repeated exposure Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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 individual component data, the product is expected to have experimental LC50

values less than 1 mg/l in most sensitive species.

Ecological information on ingredients.

N-TALLOW-1,3-DIAMINOPROPANE

Acute aquatic toxicity

LE(C)₅₀ $0.01 < L(E)C50 \le 0.1$

M factor (Acute) 10

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability Based on the individual component data, the product is not expected to be rapidly

biodegradable according to OECD/EC guidelines.

12.3. Bioaccumulative potential

Bioaccumulative potential Based on the individual component data, the product is expected to bioaccumulate.

Partition coefficient log Kow: ≥ 4

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 This product does not contain components considered to have endocrine disrupting properties

at ≥ 0.1%.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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General information

All cleaning activities including cleaning of equipment, floors and containers, can produce large volumes of contaminated waste. All cleaning agents used are potentially polluting. Water containing detergents, degreasers or any other cleaning agents must not be allowed to enter the surface water drains or soakaways. All water based cleaning/degreasing operations should be carried out in designated areas away from the surface water system and drained to the foul water system. Where this is not possible the surface water system should be isolated by suitable damming techniques and the contaminated water collected and removed for controlled safe disposal. Where water immiscible cleaners/degreasers are used for example solvents, the relevant product safety data sheet should be referred to for information on safe disposal.

Disposal methods

GENERAL 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 (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.

14.1. UN number

UN No. (ADR/RID) 2735 UN No. (IMDG) 2735 UN No. (ICAO) 2735

14.2. UN proper shipping name

Proper shipping name (ADR/RID)

Amines, liquid, corrosive, n.o.s. (containing 1,2-Cyclohexanediamine and N-Tallow-1,3-diaminopropane mixture)

Proper shipping name (IMDG) Amines, liquid, corrosive, n.o.s. (containing 1,2-Cyclohexanediamine and N-Tallow-1,3-

diaminopropane mixture)

Proper shipping name (ICAO) Amines, liquid, corrosive, n.o.s. (containing 1,2-Cyclohexanediamine and N-Tallow-1,3-diaminopropane mixture)

14.3. Transport hazard class(es)

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ADR/RID class 8

IMDG class 8

ICAO class/division 8

14.4. Packing group

ADR/RID packing group II

IMDG packing group

ICAO packing group ||

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



Labelling requirements will vary with hazardous net quantity. Please refer to the current transport regulations.

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

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. 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. This product may add to the calculation for determining whether a site is within scope of the Control of Major Accident Hazards Regulations.

This product may add to the calculation for determining whether a site is within scope of the Control of Major Accident Hazards Regulations.

Relevant EU provisions transposed through retained EU law.

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. 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.

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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. Working with ADR: An introduction to the carriage of dangerous goods by road. UK ENVIRONMENTAL REGULATING AGENCIES: England and Wales-Environment Agency; Scotland- Scottish Environment Protection Agency (SEPA); Northern Ireland- Environment and Heritage Service.

Classification procedures according to SI 2019 No. 720

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): 1, 2, 8, 11, 12, 15, 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 01/02/2023

Revision 5.7

SDS number 10693

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.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.