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## SAFETY DATA SHEET

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

#### 1.1 Product identifier

- Product Name: Bronze Putty BR Activator Component
- Product Part Number: MUL10261

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

- Use of the substance/mixture: Polymer repair system

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

- Name of Supplier: Resimac Limited
- Address of Supplier: Unit B Park Barn Estate  
Station Road  
Topcliffe, Thirsk  
YO7 3SE
- Telephone: +44 (0) 1845 577498
- Responsible Person: Ryan Lockie
- Email: Info@resimac.co.uk

#### 1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1845 577498 OPEN HOURS 9am-5pm

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

- CLP: Skin Sens. 1, Skin Corr. 1B, Muta. 2, Repr. Cat. 1B

#### 2.2 Label elements



GHS05



GHS08



GHS07

- Signal Word: Danger

#### Hazard statements

- H341 - Suspected of causing genetic defects.
- H360F - May damage fertility.
- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.

#### Precautionary statements

- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

**SECTION 2: Hazards identification (....)**

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P201 - Obtain special instructions before use.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

**2.3 Other hazards**

- Contains: 2,2'-iminodiethylamine; diethylenetriamine  
bisphenol A; 4,4'-isopropylidenediphenol

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Chemical Name	CAS Number	EC Number	Concentration	Acute toxicity estimate	Specific Concentration Limits
FORMALDEHYDE POLYMER WITH PHENOL AND TETA	32610-77-8		10-20%		
2,2'-iminodiethylamine; diethylenetriamine	111-40-0	203-865-4	1-10%		
bisphenol A; 4,4'-isopropylidenediphenol	80-05-7	201-245-8	1--10%		
3,6-diazaoctanethylenediamin; triethylenetetramine	112-24-3	203-950-6	1-10%		
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	108-95-2	203-632-7	1-10%		* Skin Corr. 1B H314: C ≥ 3 % Skin Irrit. 2 H315: 1 % ≤ C < 3 % Eye Irrit. 2 H319: 1 % ≤ C < 3 %

Chemical Name	Categories	Symbols	H Statements
FORMALDEHYDE POLYMER WITH PHENOL AND TETA			
2,2'-iminodiethylamine; diethylenetriamine	Acute Tox. 4 Skin Corr. 1B Skin Sens. 1	GHS05 GHS07	H312 H302 H314 H317
bisphenol A; 4,4'-isopropylidenediphenol	Eye Dam. 1 Skin Sens. 1 Repr. Cat. 1B STOT SE 3	GHS08 GHS05 GHS07	H360F H335 H318 H317
3,6-diazaoctanethylenediamin; triethylenetetramine	Acute Tox. 4 Skin Corr. 1B Skin Sens. 1 Aquatic Chronic 3	GHS05 GHS07	H312 H314 H317 H412
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	Acute Tox. 3 Skin Corr. 1B Muta. 2 STOT RE 2	GHS06 GHS08 GHS05	H341 H331 H311 H301 H373 H314

**SECTION 4: First aid measures**

**SECTION 4: First aid measures (....)****4.1 Description of first aid measures**

- Wash contaminated clothing before reuse.

**Contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

**Contact with skin**

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If skin irritation or rash occurs: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

**Ingestion**

IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

If vomiting occurs turn patient on side

When in doubt or symptoms persist, seek medical attention

IF exposed or concerned: Get medical advice/attention.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If breathing is difficult, oxygen should be given by a trained person

Seek medical advice if necessary

IF exposed or concerned: Get medical advice/attention.

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

- May cause blistering of the skin
- May cause dizziness
- May cause nausea/vomiting
- May cause redness and irritation
- May cause wheeziness

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

- Call a POISON CENTER/doctor/physician if symptoms continue.
  - Immediately call a POISON CENTER or doctor/physician.
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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Do not use water jets

**5.2 Special hazards arising from the substance or mixture**

- Smoke from fires is toxic. Take precautions to protect personnel from exposure
- Carbon oxides may be formed

**5.3 Advice for firefighters**

- Wear protective gloves/protective clothing/eye protection/face protection.
- Toxic fumes may be formed
- Wear Breathing Apparatus

## SECTION 6: Accidental release measures

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

- Do not get in eyes, on skin, or on clothing.
- Evacuate the area and keep personnel upwind
- In case of leakage, eliminate all ignition sources.
- Wear protective clothing as per section 8

### 6.2 Environmental precautions

- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- Avoid release to the environment. Refer to special instructions/Safety data sheets
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

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

- Absorb spillage in suitable inert material
- Collect as much as possible in clean container for reuse or disposal
- Seek expert advice for removal and disposal of all contaminated materials and wastes

### 6.4 Reference to other sections

- See Section 8
- See Section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Forms hazardous decomposition products
- Avoid contact with skin and eyes
- Dispose of contents/container to an authorised waste collection point
- Ensure adequate ventilation
- Wash contaminated clothing before reuse.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use personal protective equipment as required.
- Dispose of contents/container to

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

- Store in a dry place. Store in a closed container.
- Keep container tightly closed, in a cool, well ventilated place
- Store locked up.

### 7.3 Specific end use(s)

- No information available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 2,2'-iminodiethylamine; diethylenetriamine

DNEL (Industry; dermal, long term systemic effects): 11.4 mg/kg/day  
 DNEL (Industry; inhalational, long term systemic effects): 15.4 mg/m<sup>3</sup>  
 DNEL (Industry; dermal, long term local effects): 1.1 mg/m<sup>3</sup>  
 DNEL (Industry; inhalational, long term local effects): 0.87 mg/m<sup>3</sup>  
 DNEL (Consumer; dermal, short term systemic effects): 4.88 mg/kg/day

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**SECTION 8: Exposure controls/personal protection (....)**

DNEL (Consumer; inhalational, short term systemic effects): 27.5 mg/m<sup>3</sup>

DNEL (Consumer; dermal, long term systemic effects): 4.88 mg/kg/day

DNEL (Consumer; inhalational, long term systemic effects): 4.6 mg/m<sup>3</sup>

**8.2 Exposure controls****Gloves****Goggles**

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Use personal protective equipment as required.
- In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus
- Wear suitable gloves: Chemical resistant, impervious gloves such as Nitrile, Neoprene and PVC complying with European Standard EN374
- Wear protective gloves/protective clothing/eye protection/face protection.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Physical state: Solid
- Colour: Pale grey
- Odour: Ammonia odour
- Melting point/Range: Not applicable
- Boiling Point/Range: Not available
- Flammability: Not flammable
- pH: Not applicable
- Solubility in water: Not applicable
- Density: 1.70

**9.2 Other information**

- No information available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

- Considered stable under normal conditions

**10.2 Chemical stability**

- Considered stable under normal conditions

**10.3 Possibility of hazardous reactions**

- No hazardous reactions known if used for its intended purpose

**10.4 Conditions to avoid**

- Keep away from heat

**10.5 Incompatible materials**

- Avoid contact with acids and alkalis
- Keep away from strong oxidizing substances

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**SECTION 10: Stability and reactivity (....)****10.6 Hazardous decomposition products**

- Decomposition products may include toxic fumes
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**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Substances**

Chemical Name	LD <sub>50</sub> (oral, rat)	LD <sub>50</sub> (dermal, rabbit)	LC <sub>50</sub> (inhalation, rat)
2,2'-iminodiethylamine; diethylenetriamine	1,620 mg/kg	1,045 mg/kg	0.07 dust/mist mg/l
bisphenol A; 4,4'-isopropylidenediphenol	3,250 mg/kg	3,000 mg/kg	>5 mg/l/4h

**Skin corrosion/irritation**

Causes redness and irritation

Causes allergic reaction in susceptible people

**Serious eye damage/irritation**

Can cause damage to the eyes

May cause burning sensation

Prolonged skin or eye contact may cause chemical burns

**Respiratory or skin sensitisation**

May cause shortness of breath

**Germ cell mutagenicity**

No experimental data available

**Carcinogenicity**

No experimental data available

**Reproductive toxicity**

No experimental data available

**STOT (specific target organ toxicity) - single exposure**

No experimental data available

**STOT (specific target organ toxicity) - repeated exposure**

No experimental data available

**Aspiration hazard**

No experimental data available

**11.2 Information on other hazards**

- No information available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Substances

Chemical Name	IC <sub>50</sub> (algae)	EC <sub>50</sub> (daphnia)	LC <sub>50</sub> (fish)
2,2'-iminodiethylamine; diethylenetriamine	1164 mg/l (72 hr)	16 mg/l (48 hr)	430 mg/l (96 hr)
bisphenol A; 4,4'-isopropylidenediphenol		10.2 mg/l (48 hr)	

### 12.2 Persistence and degradability

- Biodegradable

### 12.3 Bioaccumulative potential

- Bioaccumulation is insignificant

### 12.4 Mobility in soil

- This substance will leach into the soil

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

### 12.6 Endocrine disrupting properties

- No information available

### 12.7 Other adverse effects

- No information available
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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Dispose of container to a hazardous or special waste collection point
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## SECTION 14: Transport information

### 14.1 UN number or ID number

- UN No.: 1759

### 14.2 UN proper shipping name

- Proper Shipping Name: CORROSIVE SOLID, N.O.S.
- Proper Shipping Name: Bisphenol A; 4,4'-isopropylidenediphenol

### 14.3 Transport hazard class(es)

- Hazard Class: 8

### 14.4 Packing group

- Packing Group: III

### 14.5 Environmental hazards

- On available data, substance is not harmful to the environment

### 14.6 Special precautions for user

**SECTION 14: Transport information (....)**

- Tunnel Code: E

**14.7 Maritime transport in bulk according to IMO instruments**

- Not applicable

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Substance of very high concern (SVHC)**

Chemical Name	CAS Number	Listed In	Notes
bisphenol A; 4,4'-isopropylidenediphenol	80-05-7	2017	Toxic for reproduction Endocrine disrupting properties (environment) Endocrine disrupting properties (human health)

- Water Hazard Class (Company): 2

**Substances**

Chemical Name	Water Hazard Class (Official)
FORMALDEHYDE POLYMER WITH PHENOL AND TETA	Not hazardous
3,6-diazaoctanethylenediamin; triethylenetetramine	2
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	2
2,2'-iminodiethylamine; diethylenetriamine	2
bisphenol A; 4,4'-isopropylidenediphenol	2

**15.2 Chemical safety assessment****SECTION 16: Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:-

H301: Toxic if swallowed. H302: Harmful if swallowed. H311: Toxic in contact with skin. 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. H331: Toxic if inhaled. H335: May cause respiratory irritation. H341: Suspected of causing genetic defects. H360F: May damage fertility. H373: May cause damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.

**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

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