

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

- Product Name: Aluminium Putty F Activator Component
- Product Part Number: MUL10611

#### 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

### 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<br>POLYMER WITH PHENOL AND<br>TETA                   | 32610-77-8 |           | 10-20%        |                         |   |
| 2,2'-iminodiethylamine;<br>diethylenetriamine                     | 111-40-0   | 203-865-4 | 1-10%         |                         |   |
| bisphenol<br>A;<br>4,4'-isopropylidenediphenol                    | 80-05-7    | 201-245-8 | 1--10%        |                         |   |
| 3,6-diazaoctanethylenediamin;<br>triethylenetetramine             | 112-24-3   | 203-950-6 | 1-10%         |                         |   |
| phenol;<br>carbolic acid;<br>monohydroxybenzene;<br>phenylalcohol | 108-95-2   | 203-632-7 | 1-10%         |                         | *<br>Skin Corr. 1B<br>H314:<br>C ≥ 3 %<br>Skin Irrit. 2<br>H315:<br>1 % ≤ C < 3 %<br>Eye Irrit. 2<br>H319:<br>1 % ≤ C < 3 % |

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

**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;<br>diethylenetriamine  | 1,620 mg/kg                  | 1,045 mg/kg                       | 0.07 dust/mist mg/l                |
| bisphenol<br>A;<br>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;<br>diethylenetriamine  | 1164 mg/l (72 hr)        | 16 mg/l (48 hr)            | 430 mg/l (96 hr)        |
| bisphenol<br>A;<br>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

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

- Tunnel Code: E

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

- Not applicable
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**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;<br>4,4'-isopropylidenediphenol | 80-05-7    | 2017      | Toxic for reproduction<br>Endocrine disrupting properties (environment)<br>Endocrine disrupting properties (human health) |

- Water Hazard Class (Company): 2

**Substances**

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

**15.2 Chemical safety assessment**

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**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

--- end of safety datasheet ---

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