

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**1.1 Product identifier**

**Product name**            **DEVCON ALUMINIUM PUTTY (F) RESIN**  
**Synonym(s)**            *NSN: 8010-66-150-4279 • NSN: 8030-00-051-4011 • NSN: 8030-00-229-8734 • PART A • PART D10610*  
 10610 - MANUFACTURER'S CODE • 10620 - MANUFACTURER'S CODE • ALUMINIUM PUTTY (F) RESIN  
 • EPOXY RESIN • PART: D10610

**1.2 Uses and uses advised against**

**Use(s)**                    EPOXY RESIN SYSTEM • PUTTY • TWO COMPONENT EPOXY SYSTEM

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

**Supplier name**        **ITW POLYMERS & FLUIDS PTY LTD**  
**Address**                100 Hassall St, Wetherill Park, NSW, Australia, 2164  
**Telephone**            NSW (02) 9757 8800, WA (08) 9249 2833  
**Fax**                      NSW (02) 9757 3855; WA (08) 9249 2855  
**Email**                    reception@itwpcf.com.au  
**Website**                http://www.itwpolymersandfluids.com.au

**1.4 Emergency telephone number(s)**

**Emergency**            1800 039 008; +61 3 9573 3112

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**GHS Classification(s)**    Skin Corrosion/Irritation: Category 2  
 Skin Sensitisation: Category 1  
 Serious Eye Damage / Eye Irritation: Category 2A  
 Aquatic Toxicity (Chronic): Category 2

**2.2 Label elements**

**Signal word**

**WARNING**

**Pictograms**



**Hazard statement(s)**

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.

**Prevention statement(s)**

P261                      Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264                      Wash thoroughly after handling.  
 P272                      Contaminated work clothing should not be allowed out of the workplace.  
 P273                      Avoid release to the environment.  
 P280                      Wear protective gloves/protective clothing/eye protection/face protection.

**Response statement(s)**

P302 + P352            IF ON SKIN: Wash with plenty of soap and 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.  
 P321                      Specific treatment is advised - see first aid instructions.

|                              |  |
|------------------------------|--|
| <b>Product name</b>          | <b>DEVCON ALUMINIUM PUTTY (F) RESIN</b>                                |
| P333 + P313                  | If skin irritation or rash occurs: Get medical advice/attention.       |
| P337 + P313                  | If eye irritation persists: Get medical advice/attention.              |
| P362                         | Take off contaminated clothing and wash before re-use.                 |
| P391                         | Collect spillage.  |
| <b>Disposal statement(s)</b> |  |
| P501                         | Dispose of contents/container in accordance with relevant regulations. |

**2.3 Other Hazards**

No information provided.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

**3.1 Substances / Mixtures**

| Ingredient                                     | CAS number    | EC number     | Content   |
|--|---------------|---------------|-----------|
| BISPHENOL-A-(EPICHLORHYDRIN), REACTION PRODUCT | 25068-38-6    | 500-033-5     | 30 - 60%  |
| NON HAZARDOUS INGREDIENTS                      | Not Available | Not Available | remainder |

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

|                             |  |
|-----------------------------|--|
| <b>Eye</b>                  | If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.                       |
| <b>Inhalation</b>           | If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing. |
| <b>Skin</b>                 | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.       |
| <b>Ingestion</b>            | For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.  |
| <b>First aid facilities</b> | Eye wash facilities and safety shower are recommended.   |

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

Irritating to the eyes and skin. May cause sensitisation by skin contact.

**4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

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

Combustible. May evolve toxic gases (carbon/ nitrogen oxides, hydrocarbons) when heated to decomposition.

**5.3 Advice for firefighters**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**5.4 Hazchem code**

- 3Z
- Alcohol Resistant Foam is the preferred firefighting medium. Else use;
- 3 Normal Foam (protein based foam that is not alcohol resistant).
- Z Wear full fire kit and breathing apparatus. Contain spill and run-off.

**6. ACCIDENTAL RELEASE MEASURES**

**Product name**                    **DEVCON ALUMINIUM PUTTY (F) RESIN**

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

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

**6.2 Environmental precautions**

Prevent product from entering drains and waterways.

**6.3 Methods of cleaning up**

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

**6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

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

Store tightly sealed in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should be bunded and have appropriate fire protection and ventilation systems. Store as a Class C2 Combustible Liquid (AS1940).

**7.3 Specific end use(s)**

No information provided.

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**8.1 Control parameters**

**Exposure standards**

No exposure standards have been entered for this product.

**Biological limits**

No biological limit values have been entered for this product.

**8.2 Exposure controls**

**Engineering Controls**      Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**PPE**

|                    |   |
|--------------------|---|
| <b>Eye/Face</b>    | Wear splash-proof goggles.  |
| <b>Hand</b>        | Wear viton (R) or nitrile gloves.   |
| <b>Body</b>        | Wear coveralls. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls.  |
| <b>Respiratory</b> | Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If sanding dry product, wear a Class P1 (Particulate) respirator. |



**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

|                        |               |
|------------------------|---------------|
| <b>Appearance</b>      | GREY PASTE    |
| <b>Odour</b>           | SLIGHT ODOUR  |
| <b>Odour Threshold</b> | NOT AVAILABLE |

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|                                  |                      |
|----------------------------------|----------------------|
| <b>Flammability</b>              | CLASS C2 COMBUSTIBLE |
| <b>Flash Point</b>               | > 204°C              |
| <b>Boiling Point</b>             | > 260°C              |
| <b>Melting Point</b>             | NOT AVAILABLE        |
| <b>Evaporation Rate</b>          | NOT AVAILABLE        |
| <b>pH</b>                        | 7                    |
| <b>Specific Gravity</b>          | 2.80                 |
| <b>Solubility (water)</b>        | SLIGHTLY SOLUBLE     |
| <b>Vapour Density</b>            | > 1 (Air = 1)        |
| <b>Vapour Pressure</b>           | NOT AVAILABLE        |
| <b>Upper Explosion Limit</b>     | NOT AVAILABLE        |
| <b>Lower Explosion Limit</b>     | NOT AVAILABLE        |
| <b>Partition Coefficient</b>     | NOT AVAILABLE        |
| <b>Autoignition Temperature</b>  | > 300°C              |
| <b>Decomposition Temperature</b> | NOT AVAILABLE        |
| <b>Viscosity</b>                 | NOT AVAILABLE        |
| <b>Explosive Properties</b>      | NOT AVAILABLE        |
| <b>Oxidising Properties</b>      | NOT AVAILABLE        |

**9.2 Other information**

No information provided.

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**10. STABILITY AND REACTIVITY**

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**10.1 Reactivity**

Carefully review all information in sections 10.2 to 10.6.

**10.2 Chemical stability**

Stable under recommended conditions of storage.

**10.3 Possibility of hazardous reactions**

Hazardous polymerization is not expected to occur.

**10.4 Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources.

**10.5 Incompatible materials**

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

**10.6 Hazardous decomposition products**

May evolve toxic gases (carbon/ nitrogen oxides, hydrocarbons) when heated to decomposition.

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**11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects**

**Health Hazard**                    No information provided.  
**Summary**

No information provided.

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No information provided.

No information provided.

No information provided.

BISPHENOL-A-(EPICHLORHYDRIN), REACTION PRODUCT (25068-38-6)

LD50 (Ingestion): 2 - 19 g/kg (rat)

LD50 (Intraperitoneal): 2.2 g/kg (rat)

LD50 (Skin): > 20 mL/kg (rabbit)

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Results of PBT and vPvB assessment**

No information provided.

**12.6 Other adverse effects**

No information provided.

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Waste disposal**            Mix components together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer/supplier for additional information (if required). Prevent contamination of drains and waterways as environmental damage may result.

**Legislation**                Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

**CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**



**Land Transport  
(ADG)**

**Sea Transport  
(IMDG/IMO)**

**Air Transport  
(IATA/ICAO)**

**14.1 UN number**

3082

3082

3082

**14.2 UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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**14.3 Transport hazard classes**

|                           |                |     |     |
|---------------------------|----------------|-----|-----|
| <b>DG Class</b>           | 9              | 9   | 9   |
| <b>Subsidiary risk(s)</b> | None Allocated | -   | -   |
| <b>14.4 Packing group</b> | III            | III | III |

**14.5 Environmental hazards**

None Allocated

**14.6 Special precautions for user**

|                     |          |
|---------------------|----------|
| <b>Hazchem Code</b> | •3Z      |
| <b>EMS</b>          | F-A, S-F |

**Other information**            Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;  
 (a) packagings;  
 (b) IBCs; or  
 (c) any other receptacle not exceeding 500 kg(L).

**15. REGULATORY INFORMATION**

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

**Poison schedule**            Classified as a Schedule 5 Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications**            N - Dangerous for the environment  
 Xi - Irritant

**Risk phrases**                R36/38:                            Irritating to eyes and skin.  
 R43:                                May cause sensitisation by skin contact.  
 R51/53:                            Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

**Safety phrases**                S1:                                    Keep locked up.  
 S23:                                Do not breathe gas/fumes/vapour/spray (where applicable).  
 S24/25:                            Avoid contact with skin and eyes.  
 S28:                                After contact with skin, wash immediately with plenty of water.  
 S36/37/39:                        Wear suitable protective clothing, gloves and eye/face protection.  
 S61:                                Avoid release to the environment. Refer to special instructions/safety data sheets.

**Inventory listing(s)**         **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**  
 All components are listed on AICS, or are exempt.

**15.2 Chemical safety assessment**

No information provided.

**16. OTHER INFORMATION**

**Additional information**    This product is used in conjunction with Devcon Aluminium Putty (F) Hardener. Please refer to the appropriate SDS before use.

**WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT:** If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (e.g. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

**EPOXY - PHENOXY RESINS AND POLYURETHANES:** Where spray painting with two or more component epoxy resins or polyurethane paints is undertaken, an employee shall wear a air-line respirator, full length chemically resistant coveralls and gloves. Further, if an individual is to enter an enclosed booth where a vapour or gas curing process is occurring, an air-line respirator is required. Once cured, these resins are

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considered non toxic.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Abbreviations**

|                   |   |
|-------------------|---|
| ACGIH             | American Conference of Governmental Industrial Hygienists                                       |
| CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                 |
| CNS               | Central Nervous System  |
| EC No.            | EC No - European Community Number   |
| EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
| GHS               | Globally Harmonized System  |
| GTEPG             | Group Text Emergency Procedure Guide  |
| IARC              | International Agency for Research on Cancer   |
| LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
| LD50              | Lethal Dose, 50% / Median Lethal Dose   |
| mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
| OEL               | Occupational Exposure Limit   |
| pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
| ppm               | Parts Per Million   |
| STEL              | Short-Term Exposure Limit   |
| STOT-RE           | Specific target organ toxicity (repeated exposure)  |
| STOT-SE           | Specific target organ toxicity (single exposure)  |
| SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                    |
| SWA               | Safe Work Australia   |
| TLV               | Threshold Limit Value   |
| TWA               | Time Weighted Average   |

**Report Status**

This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ('SDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

**Product name****DEVCON ALUMINIUM PUTTY (F) RESIN**

While RMT has taken all due care to include accurate and up-to-date information in this ChemAlert report, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this ChemAlert report.

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**End of Report**