DEKS INDUSTRIES
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Technical Documents

1: TDS RCAL80

2: Drawings RCAL80

3: SDS RCAL80

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ENGINEERED REPAIR CLAY

Aluminium

Technical Data Sheet (TDS)

Product Description:
This specially formulated repair clay is fast setting and ideal to temporarily fix leaks, cracks and repatch any parts made out of Aluminium. It is easy to mix by hand and once hardened, can be drilled, tapped, filled, machined, sanded, and painted. Hardens in 60 minutes, full cure (for maximum strength) occurs after 24 hours from application. The DEKS Aluminium Repair Clay is ideal to fix Refrigeration/Air conditioning unit parts, shelves, exhausts, casings, wheels, gutters, and anything made out of Aluminium.

Directions of use:
Make sure the surface is clean and dry before using the repair clay. Roughen/sand the area before applying the repair clay for better adhesion. Cut the required amount and mix thoroughly to form a uniform mixture and colour.

Simply apply it to the material or area requiring repair immediately. The clay will begin to harden after 5 minutes and set in 10 minutes. It can be drilled, tapped, filed, sanded, sealed, and painted once hardened.

Product will harden in 60 minutes, a full cure (for maximum strength) occurs 24 hours after application.

Product Benefits & Performance:

- Fast setting - Sets in ten minutes to carry out quick emergency repairs, preventing further damages or leaks.
- Hand mouldable - Can be easily mixed by hand without the need for any specialist tools.
- Versatile - Moulds into different shapes and versatile for gap filling and surface repairs.
- Engineered - Specially formulated range to suit wide variety of materials and applications.
- Resistance - Excellent resistance to oils, hydro carbons and most solvents.

Material Compatibility:

- ✓ Aluminium
- ✓ Brass
- ✓ Stainless Steel
- ✓ Cast Iron

PART NUMBER	DISPLAY NAME	MATERIAL
RCAL80	Repair Clay Aluminium 80g	KS-22™ Formula

SAFETY DATA SHEET

Section 1. Identification

Product Identifier: DEKS Repair Clay - REPAIR CLAY MULTIPURPOSE & PLUMBING

Other means of identification: Proper Shipping name:

Product code: RCRG80 - Roof & Gutter , RCW80 – Wood, RCAL80 - RCEX80- Exhaust & Radiator, RCPL80 – Plumbing,

Recommended use of the chemical and restrictions on use:

Single part filler putty product for industrial use purposes.

Details of manufacturer or importer:

Deks Industries Pty Ltd
2 Logis Boulevard,
Dandenong South, 3175 Victoria.

Telephone Number: +61 3 8727 8800

Emergency Telephone number

During business hours: +61 3 87278800

After hours: Please contact the POISON CENTER (131 126) or a doctor/physician

Section 2: Hazards Identification

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Based on available information, classified as hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

Poisons Schedule (SUSMP): No data available

Skin corrosion/irritation (Category 2)
Eye irritant, (Category 2A)
Skin Sens, (Category 1)
Aquatic Chronic (Category 3)

Signal Word: Warning

Hazard Statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention

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

Response

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+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 reuse.

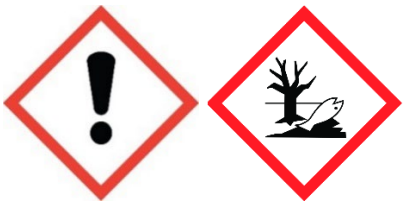
Storage

P403 + P235 Store in a well-ventilated place. Keep container tightly closed.

Other hazards

None

Hazard Symbols



Section 3. Composition and information on ingredients

Chemical Identity	Synonym	CAS Number	Proportions (%w/w)
Reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight < =700)	--	1675-54-3	20-50
2,4,6-tris(dimethylaminomethyl)phenol	--	90-72-2	< 5
Reaction product: pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide	--	72244-98-5	10-30

Non-hazardous fillers	--	--	to 100

Section 4. First aid measures

In case of poisoning contact a doctor or Poisons Information Centre on 131 126, New Zealand 0800 Have the product label or SDS with you when calling or going for treatment.

Ingestion: If swallowed, do NOT induce vomiting: rinse mouth thoroughly with water and contact Poisons Information Centre. or If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Skin Contact: Take off all contaminated clothing immediately. Wash off immediately with plenty soap and water. If irritation persists, call a physician. Wash contaminated clothing before re-use.

Inhalation: Move person to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poisons Information Centre immediately.

Symptoms caused by exposure: Symptoms include inflammation of the mouth, throat and oesophagus, gastrointestinal discomfort and diarrhoea

Medical attention and special treatment: No data available

Section 5. Firefighting measures

Suitable extinguishing equipment:

Use fire extinguishing methods suitable to surrounding conditions. Use Water spray or fog. foam, carbon dioxide or dry chemical.

Specific Hazards arising from the chemical:

No data available.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Hazchem Code: No data available.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away. Do not touch or walk through spilled material. Provide adequate ventilation.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up:

Due to its viscous nature, this product is not expected to leak or spill. Collect liquid spill with an inert absorbent material and place into a suitable container for disposal.

Section 7. Handling and storage

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8. Exposure controls and personal protection

Component	TWA 8h	TWA 5 days	STEL	Peak limitations (If available)
Bisphenol-A-(epichlorohydrin)	No value	No value	No value	No value
2,4,6-tris(dimethylaminomethyl)phenol	No value	No value	No value	No value
pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide	No value	No value	No value	No value

No value -- No exposure standard assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituents(s) has been shown in table if available.

Note: As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.
TWA - The time-weighted average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.
These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as clear defining points between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Biological monitoring:

No biological limits allocated.

Control banding:

No data available.

Engineering controls:

In high use industrial applications, suitable mechanical ventilations systems should be available in the work area

Individual protection measures, for example personal protective equipment (PPE):

Eye and face protection

Wear suitable safety glasses/goggles and face shield that is designed to relevant Australian standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (Without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination that meets Australian Standards.

Thermal hazards

No data available

Other information.

Reference standards for (PPE).
Respiratory protection: AS/NZS 1715 and AS/NZS 1716.
Gloves: AS/NZS 2161.1.
Eye protection: AS/NZS 1336 and AS/NZS 1337

Section 9. Physical and chemical properties

Appearance: Fluid paste, Peacock Blue /white.
Odour: Characteristic.
Odour threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.
Boiling point and boiling range: No data available.
Flash point: > 100 °C
Evaporation rate: No data available.
Flammability (solid, gas): No data available.
Upper/lower flammability or explosive limits: Not flammable.
Vapour pressure: No data available.
Vapour density: No data available.

Relative density: 1.60 – 1.80 g/L
Solubility: Not miscible or difficult to mix in water.
Partition coefficient: n-octanol/water: No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

Other physical/chemical parameters

Specific heat value: No data available.
Saturated vapour concentration: No data available.
Release of invisible flammable vapours and gases: Not flammable.
Particle size (average and range): No data available.
Size distribution: No data available.
Shape and aspect ratio: No data available.
Crystallinity: No data available.
Dustiness: No data available.
Surface area: No data available.
Degree of aggregation or agglomeration, and dispersibility: No data available.
Redox potential: No data available.
Biodurability or biopersistence: No data available.
Surface coating or chemistry: No data available.

Section 10. Stability and reactivity

Reactivity: Not reactive under normal conditions of use.
Chemical stability: Stable under normal storage and handling conditions.
Possibility of hazardous reactions: No dangerous reactions known.
Conditions to avoid: No data available.
Incompatible materials: Oxidizing agents.
Hazardous decomposition products: Not expected under normal conditions of use.
Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material is an irritant to mucous membranes and respiratory tract.
Skin contact: Contact with skin will result in irritation.
Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Eye contact: An eye irritant.

Acute toxicity

Skin corrosion/irritation: Skin irritant.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Aspiration hazard: No data available.

Chronic Toxicity

Germ cell mutagenicity: No data available.
Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity: No data available.
Specific target organ toxicity (STOT) - single exposure: No data available.
Specific target organ toxicity (STOT) - repeated exposure: No data available.
Aspiration hazard: No data available.
Additional Information: Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties for this mixture have not been thoroughly investigated.

Information on possible routes of exposure (Based on bisphenol-A-(epichlorohydrin) epoxy resin)

Oral toxicity (Acute): LD50 = > 15,000 mg/kg – Rat.
Inhalation: At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation. The LC50 has not been determined.
Dermal toxicity (Acute): LD50 = 23,000 mg/kg – Rabbit.

Information on early onset of symptoms related to exposure

No data available.

Delayed health effects from exposure

No data available.

Exposure levels and health effects

No data available. Take precautionary approach exposure levels.

Interactive effects

Health effects from exposure can be worsened by drinking alcohol, taking medication or smoking. Pre-existing medical conditions such as asthma, high blood pressure or a predisposition to allergic reactions may increase risk.

Other information

Material is an irritant to the eyes and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12. Ecological Information

Avoid contaminating waterways.
Acute aquatic hazard: No data available.
Long-term aquatic hazard: No data available.

Ecotoxicity:
Ecotoxicological information on this product or its components appear in this section when such data is available

	Toxicity to fish:	**Toxicity to and other aquatic invertebrates:**	**Toxicity to algae and other aquatic plants:**
Based on bisphenol-A-(epichlorohydrin)	(LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested). LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 2 mg/l	EC50, Daphnia magna (Water flea), static test, 48 Hour, 1.8 mg/l	ErC50, Scenedesmus capricornutum (freshwater algae), static test, 72 Hour, Growth rate inhibition, 11 mg/l

Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: Mixture - No data available.
Other adverse effects: No information available (environmental fate, ozone depletion, photochemicalozone creation potential, endocrine-disruption potential and global warming potential.)

Section 13. Disposal consideration

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see “Section 8. Exposure Controls and Personal Protection” of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional national and international Regulations.

Section 14. Transport Information

ROAD AND RAIL TRANSPORT

Not Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail. (ADG Code).

Special precautions for user: No data available.

Additional information: No data available

MARINE TRANSPORT

Not Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

This material is not subject to the following international agreements:

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL).

This material/constituents(s) is covered by the following requirements:

- the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act 1989 (Cwlth) (as amended). If so, list the relevant Poisons Schedule number. (No data available).
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

Section 16. Other Information

Date of preparation: 27/06/2023
Reason for issue: Format change
Prepared by ChemVit Consulting Pty Ltd

Source of data

This SDS has been prepared in accordance the Safe Work Australia Preparation of safety data sheets for hazardous chemicals Code of Practice prepared under the Work Health and Safety Act and Work Health and Safety Regulations.
Code of Practice: Labelling of workplace hazardous chemicals
'Standard for the Uniform Scheduling of Medicines and Poisons'

Hazard Classification

Australian Inventory of Chemical Substances (AICS) (NICNAS)
Chemical Assessment Reports (NICNAS)
Workplace Exposure Standards for Airborne Contaminants
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
(United Nations) Global Portal to Information on Chemical Substances (OECD).
OECD means the Organisation for Economic Cooperation and Development.
Hazardous Chemical Information System
European Chemicals Agency (ECHA)

Other references

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7.8, 2022
Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.

Key abbreviations or acronyms used

< Less Than. > Greater Than. AICS Australian Inventory of Chemical Substances. atm Atmosphere. CAS Chemical Abstracts Service (Registry Number). cm^2 Square Centimetres. deg C (°C) Degrees Celsius. g Grams g/cm^3 Grams per Cubic Centimetre. g/l Grams per Litre. IDLH Immediately Dangerous to Life and Health. LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period, usually 1 or 4 hours.	LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. NIOSH National Institute for Occupational Safety and Health. NOHSC National Occupational Health and Safety Commission. OECD Organisation for Economic Co-operation and Development. ppb Parts per Billion. ppm Parts per Million. psi Pounds per Square Inch. STEL Short Term Exposure Limit. TLV Threshold Limit Value. TWA Time Weighted Average. UN United Nations.

Disclaimer

This Safety Data Sheet was prepared in good faith from the best information available at that time of issue and is based on the present state of our knowledge and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. Deks Industries Pty Ltd and its Affiliates or Agents shall not be held liable or responsible for any damage or unauthorised use of this information or from contact with this product.

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