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

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**1.1 Product identifier**

**Product name** CEE BEE R-66C  
**Synonyms** CEE BEE R66C

**1.2 Uses and uses advised against**

**Uses** SURFACE FINISHING

**1.3 Details of the supplier of the product**

**Supplier name** DUBOIS CHEMICALS AUSTRALIA PTY LIMITED  
**Address** 305 Frankston Dandenong Rd, Dandenong South, VIC, 3175, AUSTRALIA  
**Telephone** (03) 9768 3860  
**Email** [sales@duboischchemicals.com.au](mailto:sales@duboischchemicals.com.au)  
**Website** <http://duboischchemicals.com.au/>

**1.4 Emergency telephone numbers**

**Emergency** 13 11 26 (Poisons Information Centre)

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**2. HAZARDS IDENTIFICATION**

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**2.1 Classification of the substance or mixture**

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards**

Corrosive to Metals: Category 1

**Health Hazards**

Acute Toxicity: Oral: Category 4  
Acute Toxicity: Skin: Category 4  
Skin Corrosion/Irritation: Category 1B  
Serious Eye Damage / Eye Irritation: Category 1  
Acute Toxicity: Inhalation: Category 4

**Environmental Hazards**

Not classified as an Environmental Hazard

**2.2 GHS Label elements**

**Signal word** DANGER

**Pictograms****Hazard statements**

H290 May be corrosive to metals.  
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.

**PRODUCT NAME CEE BEE R-66C****Prevention statements**

|      |   |
|------|---|
| P234 | Keep only in original packaging.  |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.  |
| P264 | Wash thoroughly after handling.   |
| P270 | Do not eat, drink or smoke when using this product.   |
| P271 | Use only outdoors or in a well-ventilated area.   |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |

**Response statements**

|                    |  |
|--------------------|--|
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| 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/physician.  |
| P321               | Specific treatment is advised - see first aid instructions.  |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.   |
| P390               | Absorb spillage to prevent material damage.  |

**Storage statements**

|      |  |
|------|--|
| P405 | Store locked up.   |
| P406 | Store in corrosive resistant container with a resistant inner liner. |

**Disposal statements**

|      |  |
|------|--|
| P501 | Dispose of contents/container in accordance with relevant regulations. |
|------|--|

**2.3 Other hazards**

No information provided.

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**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

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**3.1 Substances / Mixtures**

| Ingredient                | CAS Number    | EC Number     | Content    |
|---------------------------|---------------|---------------|------------|
| PHOSPHORIC ACID           | 7664-38-2     | 231-633-2     | 1 to <2.5% |
| HYDROFLUORIC ACID         | 7664-39-3     | 231-634-8     | 0.7 to <1% |
| NON HAZARDOUS INGREDIENTS | Not Available | Not Available | Remainder  |

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**4. FIRST AID MEASURES**

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**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 Full-face Type B (Inorganic and acid gas) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.        |
| <b>Skin</b>                 | If skin contact occurs, immediately remove contaminated clothing. Flush skin under running water for 15 minutes. Then apply calcium gluconate gel or HEXAFLUORINE ®. Contact a Poisons Information Centre on 13 11 26 (Australia Wide). |
| <b>Ingestion</b>            | For advice, contact a Poisons 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 should be available.  |

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

See Section 11 for more detailed information on health effects and symptoms.

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

Eye Treatment: Flush the eye with water for at least 15 minutes, continue irrigation with isotonic saline or water until the severe pain of the burn is relieved. Instil several drops of sterile calcium gluconate (10% solution).

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**5. FIRE FIGHTING MEASURES**

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**5.1 Extinguishing media**

Use an extinguishing agent suitable for the surrounding fire. Do not use water jets.

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

Non flammable. May evolve toxic gases (fluorides, phosphorus oxides, phosphine) when heated to decomposition. May evolve flammable hydrogen gas in contact with some metals.

**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**

- 2X
- 2 Fine Water Spray.
- X Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.

**6. ACCIDENTAL RELEASE MEASURES**

**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 sodium bicarbonate or 50-50 mixture of sodium carbonate and calcium hydroxide. Collect and flush with excess water to drain or collect and take to approved landfill. Clean spill site with sodium carbonate solution.

**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 in a secured, cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled and protected from physical damage when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation and fire protection systems.

**7.3 Specific end uses**

No information provided.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

**Exposure standards**

| Ingredient               | Reference      | TWA      |                   | STEL |                   |
|--------------------------|----------------|----------|-------------------|------|-------------------|
|                          |                | ppm      | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Hydrofluoric Acid        | SWA [AUS]      | 3 (Peak) | 2.6 (Peak)        | --   | --                |
| Hydrogen fluoride (as F) | SWA [Proposed] | 2 (Peak) | 1.6 (Peak)        | --   | --                |
| Phosphoric acid          | SWA [AUS]      | --       | 1                 | --   | 3                 |

**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.

**PPE**

|                    |  |
|--------------------|--|
| <b>Eye / Face</b>  | Wear a faceshield and splash-proof goggles.  |
| <b>Hands</b>       | Wear PVC or rubber gloves.   |
| <b>Body</b>        | Wear coveralls. When using large quantities or where heavy contamination is likely, wear PVC boots and a rubber apron.   |
| <b>Respiratory</b> | Where an inhalation risk exists, wear a Type B (acid gas and vapours) respirator. If spraying, wear an Air-line respirator or a Full-face Type B-Class P1 (Inorganic and Acid Gas and Particulate) respirator. |



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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

|                                  |               |
|----------------------------------|---------------|
| <b>Appearance</b>                | WHITE LIQUID  |
| <b>Odour</b>                     | SLIGHT ODOUR  |
| <b>Flammability</b>              | NON FLAMMABLE |
| <b>Flash point</b>               | NOT RELEVANT  |
| <b>Boiling point</b>             | 93°C          |
| <b>Melting point</b>             | < 0°C         |
| <b>Evaporation rate</b>          | NOT AVAILABLE |
| <b>pH</b>                        | < 2 (Neat)    |
| <b>Vapour density</b>            | NOT AVAILABLE |
| <b>Relative density</b>          | 1.01          |
| <b>Solubility (water)</b>        | SOLUBLE       |
| <b>Vapour pressure</b>           | 23 kPa @ 20°C |
| <b>Upper explosion limit</b>     | NOT RELEVANT  |
| <b>Lower explosion limit</b>     | NOT RELEVANT  |
| <b>Partition coefficient</b>     | NOT AVAILABLE |
| <b>Autoignition temperature</b>  | NOT AVAILABLE |
| <b>Decomposition temperature</b> | NOT AVAILABLE |
| <b>Viscosity</b>                 | NOT AVAILABLE |
| <b>Explosive properties</b>      | NOT AVAILABLE |
| <b>Oxidising properties</b>      | NOT AVAILABLE |
| <b>Odour threshold</b>           | NOT AVAILABLE |

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**10. STABILITY AND REACTIVITY**

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**10.1 Reactivity**

May be corrosive to metals.

**10.2 Chemical stability**

Stable under recommended conditions of storage.

**10.3 Possibility of hazardous reactions**

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), alkalis (e.g. sodium hydroxide) and some metals.

**10.6 Hazardous decomposition products**

May evolve toxic gases (fluorides, phosphorus oxides, phosphine) when heated to decomposition.

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**11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects**

**Acute toxicity** Harmful if swallowed, in contact with skin or if inhaled. Ingestion may result in burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

**Information available for the ingredients:**

| Ingredient        | Oral LD50        | Dermal LD50         | Inhalation LC50              |
|-------------------|------------------|---------------------|------------------------------|
| PHOSPHORIC ACID   | 1530 mg/kg (rat) | 2740 mg/kg (rabbit) | 3846 mg/m <sup>3</sup> (rat) |
| HYDROFLUORIC ACID | --               | --                  | 342 ppm/1 hour (mouse)       |

**Skin** Contact may result in irritation, redness, pain, rash, dermatitis and possible burns.

**Eye** Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible serious eye damage.

**Sensitisation** Not classified as causing skin or respiratory sensitisation.

**Mutagenicity** Not classified as a mutagen.

**Carcinogenicity** Not classified as a carcinogen.

**Reproductive** Not classified as a reproductive toxin.

**STOT - single exposure** Over exposure may result in irritation of the nose and throat, coughing and bronchitis. High level exposure may result in ulceration of the respiratory tract, lung tissue damage, chemical pneumonitis and pulmonary oedema. Vapours may cause drowsiness and dizziness.

**STOT - repeated exposure** Not classified as causing organ damage from repeated exposure. Adverse effects are generally associated with single exposure.

**Aspiration** Not classified as causing aspiration.

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Harmful effect due to pH shift. Discharge into the environment should be avoided.

**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 Other adverse effects**

SOIL: If released to soil, this product will dissolve the carbonate based soil materials due to its acidic nature. WATER: A significant amount will reach the water table where dilution and dispersion serve to reduce the acid concentration. Aquatic life may be threatened if the pH falls below 5.

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Waste disposal** For small amounts (as determined by risk assessment or similar): Wearing the protective equipment detailed above, neutralise to pH 6-8 by SLOW addition to a saturated sodium bicarbonate solution or similar basic solution. Dilute with excess water and flush to drain. Waste disposal should only be undertaken in a well ventilated area. For larger amounts: Dispose in accordance with local regulations.

**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              | 3264  | 3264  | 3264  |
| 14.2 Proper Shipping Name   | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains phosphoric acid, hydrofluoric acid) | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains phosphoric acid, hydrofluoric acid) | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains phosphoric acid, hydrofluoric acid) |
| 14.3 Transport hazard class | 8   | 8   | 8   |
| 14.4 Packing Group          | II  | II  | II  |

**14.5 Environmental hazards**

Not a Marine Pollutant.

**14.6 Special precautions for user**

Hazchem code 2X  
 GTEPG 8A1  
 EmS F-A, S-B

**15. REGULATORY INFORMATION**

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

**Poison schedule** Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications** Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

**Inventory listings** **AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)**  
 All components are listed on AIIC, or are exempt.

**16. OTHER INFORMATION**

**Additional information** EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ACIDS: When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

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.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:  
 The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, 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.

HEALTH EFFECTS FROM EXPOSURE:  
 It should be noted that the effects from exposure to this product will depend on several factors including: form of product; 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 report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**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 document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources 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. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, 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 SDS.

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