Infosafe No. $610 \mathrm{~T} 9 \quad$ Issue Date: October 1998

## Product Name: KERB(R) SELECTIVE HERBICIDE

Classified as hazardous according to criteria of Worksafe Australia

## COMPANY DETAILS

| Company Name | ROHM AND HAAS AUSTRALIA PTY LTD |
| :--- | :--- |
| Address | 969 BURKE ROAD CAMBERWELI |
| Emergency Tel. | VICTORIA 3124 |
| Tel/Fax | Tel: (03) 92724222 Fax: (03) 92724254 |
| Other Information | This MSDS has been transcribed into Infosafe worksafe Australia format from <br> an original issued by the manufacturer on the date shown below. Any |
|  | disclaimer by the manufacturer has not been included in the transcription. |

## IDENTIFICATION

| Product Code | 62789 |
| :--- | :--- |
| Product Name | KERB (R) SELECTIVE HERBICIDE |
| Proper Shipping | None Allocated |
| Name | Name |
| Other Names | KERB (R) SELECTIVE HERBICIDE |
|  | None Allocated |
| UN Number | None Allocated |
| DG Class | None Allocated |
| Packing Group | None Allocated |
| Hazchem Code | Not Scheduled |

Physical Data

| Appearance | Off-whihte powdered solid; odorless. |
| :--- | :--- |
| Melting Point | $154^{\circ} \mathrm{C} / 309^{\circ} \mathrm{F}$ Estimate |
| Boiling Point | Not applicable |
| Vapour Pressure | $<0.01 \mathrm{~mm} \mathrm{Hg} \mathrm{@} 20^{\circ} \mathrm{C} / 68^{\circ} \mathrm{F}$ |
| Specific Gravity | (Water $=1$ ): 0.20 to $0.25 \mathrm{~g} . / \mathrm{cc}$. Bulk Density |
| Flash Point | None Allocated |
| Flamm. Limit LEL | Lower: $0.175 \mathrm{oz} / \mathrm{ft} 3175.193 \mathrm{~g} / \mathrm{m} 3 ;$ Upper: No data |

## Other Properties

| Volatile Component | 0 to $2 \%$ |
| :--- | :--- |
| Autoignition Temp. | $428^{\circ} \mathrm{C} / 802^{\circ} \mathrm{F}$ |
| Vapour Density | (Air=1) Not applicable |
| Other Information | Viscosity: Not applicable <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br> Solubility in Water: Dispersible <br>  <br> See FIRE/EXPLOSION HAZARDS in the SAFE HANDLING INFORMATION Section. |
|  |  |

## Ingredients

| Ingredients | Name | CAS | Proportion |
| :--- | :--- | :--- | :--- |
|  | Ethyleneglycol | $107-21-1$ | $2 \%$ |
|  | Ethylene glycol | $107-21-1$ | $2 \%$ |
|  | Silica, crystalline - Quartz | $14808-60-7$ | $0-1.25 \%$ |
|  | Aluminium silicate dihydrate | $1332-58-7$ | $44-48 \%$ |
|  | Related reaction products | None |  |
|  | Octylphenoxypolyethoxyethanol | $9036-19-5$ | $8061-51-6$ |

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| $\text { Fi } 111$ |  |
| :---: | :---: |
| Swallowe |  to an unconscious person. |
| Eye |  physician if irsitation persists. |
| Skion |  physician if irritation pergists. |
| Inlialed | inve subject to fregh alr. |
| First Aid Ficilities |  mossoln facility anc a satety shower: |
| ANMe lul Mo |  |
|  |  |
| $111$ | $11$ $\qquad$ 4. $\qquad$ \#. |
|  | $\overline{1 R}$ |

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| Exposure Limits | COMPONENT |  | R\&H |  | NOHSC |  | ACGIH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NO. | UNIT | TWA | STEL | TWA | STEL | TWA | STEL |
|  | 1 | $\mathrm{mg} / \mathrm{m} 3$ | 0.1 | None | None | None | None | None |
|  | 2 | $\mathrm{mg} / \mathrm{m} 3$ | 20 Skin | 60 Skin | 60 a | 120 a | 100 a | None |
|  | 3 | $\mathrm{mg} / \mathrm{m} 3$ | None | None | None | None | 2 b | None |
|  | 4 |  | None | None | None | None | None | None |
|  | 5 |  | None | None | None | None | None | None |
|  | 6 |  | None | None | None | None | None | None |
|  | 7 | $\mathrm{mg} / \mathrm{m} 3$ | 0.1 b | None | c | C | 0.1 b | None |
|  | a |  |  |  |  |  |  |  |
|  | b | ble Fra | ion | $\cdots$ |  |  |  |  |
|  | c | eview |  | $\cdots$ |  |  |  |  |
|  | $1$ | de (Prop | zamide) |  |  |  |  | . |
|  | $2$ | glyco |  |  |  |  |  |  |
|  | 3 | m sili | e dihydr |  |  |  |  |  |
|  | 4 | lignosu | onate |  |  |  |  |  |
|  | 5. | reacti | products |  |  |  |  |  |
|  | 6 | enoxypo | thoxyeth |  |  |  |  |  |
| - |  | crysta | ine - Qua |  |  |  |  |  |
| Eng. Controls | Use 10 . Sta |  | entilatio point | with a mi dust or |  | re velo <br> n. Re | ty of r to A | $\begin{array}{r} \mathrm{ft} / \mathrm{m} \\ \text { raliar } \end{array}$ |

## Personal Protection

Protective Equip.
RESPIRATORY PROTECTION: A respiratory protection program meeting AS1716 and AS1715 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in the EXPOSURE STANDARDS INFORMATION Section.
Up to 10 times the TWA/TLV: Wear an Australian Standards approved (or equivalent) half-mask, air-purifying respirator.
Up to 1000 ppm organic vapor: Wear an Australian Standards approved (or equivalent) full-facepiece, air-purifying respirator.
Above 1000 ppm organic vapor or Unknown: Wear an Australian Standards approved (or equivalent) self-contained breathing apparatus in the positive pressure mode,
OR,
Australian Standards approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Air-purifying respirators should be equipped with an Australian Standards approved (or equivalent) cartridges for protection against pesticides. EYE PROTECTION: Use safety glasses (AS1337 or approved equivalent).
HAND PROTECTION: Chemical-resistant gloves should be worn whenever this material is handled.
The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant material may not provide adequate protection: - Butyl rubber

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. -.
Rinse and remove gloves immediately after use. Wash hands with soap and water.
OTHER PROTECTION: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

## Flammability

SAFE HANDLING INFORMATION

## Storage and Transport

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| Toxicology | ACUTE DATA <br> Oral LD50 - rat: $>5000 \mathrm{mg} / \mathrm{kg}$ <br> Dermal LD50 - rabbit: $>2000 \mathrm{mg} / \mathrm{kg}$ <br> Eye irritation - rabbit: inconsequential irritation <br> Skin irritation - rabbit: practically non-irritating <br> Inhalation LC50 - rat: $>5 \mathrm{mg} / \mathrm{L}$ for 4 hr <br> SUBCHRONIC/CHRONIC DATA <br> The active ingredient is classified as a Category 3 carcinogen according to criteria of Worksafe Australia. <br> The following data pertains to studies conducted with the technical material 85\% active ingredient:- Decreased body weight and food consumption; <br> increased liver weight; liver thyroid, adrenal and pituitary hypertrophy were observed at 1000 ppm and above in the rat 13 week dietary study. The overall $\mathrm{NOEL}_{\mathrm{i}}$ was 200 ppm ( $10 \mathrm{mg} / \mathrm{kg} / \mathrm{day}$ ) in ratts. <br> Decreased body weight and food consumption; increased liver and adrenal weights and liver histopathology were observed at 500 ppm and above in the mouse 13 week dietary study. The overall NOEL was $100 \mathrm{ppm}(16 \mathrm{mg} / \mathrm{kg} / \mathrm{day}$ ) in mice. <br> Decreased body weight gain and food consumption and increased liver weight were observed at 1350 ppm and above in the dog 13 week dietary study. The overall NOEL was 450 ppm ( $15 \mathrm{mg} / \mathrm{kg} /$ day) in dogs. <br> CARCINOGENICITY DATA <br> The following data pertains to studies conducted with the technical material 85\% active ingredient: <br> Thyroid adenomas, testicular adenomas, ovarian hyperplasia and liver <br> hypertrophy were observed at 1000 ppm in the rat two-year oncogenicity study the overall NOEL was $40 \mathrm{ppm}(2 \mathrm{mg} / \mathrm{kg} /$ day) in rats. <br> Hepatic tumors were observed at 70 ppm and above in the mouse two-year oncogenicity study; the overall NOEL was $13 \mathrm{ppm}(2 \mathrm{mg} / \mathrm{kg} / \mathrm{day})$ : in mice. <br> MUTAGENICITY DATA <br> The following data pertains to studies conducted with technical material, 85\% active ingredient: <br> Ames mutagenicity: Negative <br> Bacterial DNA damage (rec-assay): Negative <br> Mouse Lymphoma Point Mutation: Negative <br> In vitro cytogenetic assay (Chinese hamster lung fibroblasts): Negative <br> In vivo cytogenetic assay (rat): Negative <br> In vivo cytogenetic assay (mouse): Negative <br> Rat Hepatocyte Unscheduled DNA Synthesis: Negative <br> Mouse Host Mediated Bacterial Gene Mutation Test: Negative <br> REPRODUCTIVE/TERATOLOGY DATA <br> The following data pertains to studies conducted with the technical material 85\% active ingredient: <br> Decreased parental body weight and feed consumption; liver, adrenal and thyroid hypertrophy and decreased body weight in offspring at 1500 ppm were observed in the rat reproductive toxicity study. The overall NOEL was 200 ppm ( $10 \mathrm{mg} / \mathrm{kg} /$ day) in rats. * <br> SENSITIZATION DATA <br> Delayed Contact Hypersensitivity - guinea pig: No allergic response observed. |
| :---: | :---: |
| Other Information | KERB(R) IS A TRADEMARK OF ROHM AND HAAS COMPANY OR ONE OF ITS SUBSIDIARIES OR AFFILIATES. |

TECHNICAL ENQUIRIES: Geelong Plant, Phone: 0352276300 GENERAL ENQUIRIES: Phone: 0392724222
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