



MATERIAL SAFETY DATA SHEET

| | |
|----------|-----------------|
| PRODUCT: | RINS ASSIST - H |
|----------|-----------------|

1. Product and Company Identification

| | | |
|-------------------------|-------------------------------|--|
| PRODUCT NAME: | RINS ASSIST - H | |
| SYNONYM: | | |
| CHEMICAL NAME: | DETERGENT | |
| CAS NO: | | |
| UN NO: | | |
| REF NO: | | |
| SUPPLIER/MANUFACTURER: | Name: | <i>Pineland Environmental Technology (Pty) Ltd</i> |
| | Address: | Unit B41 Pinelands Business Park New Mill Road Pinelands Cape Town |
| | Tel No: | +27 (0)21-531-3749 |
| | Telefax: | +27 (0)21-531-3903 |
| EMERGENCY TELEPHONE NO: | 083 464 1074 (Chris Davidson) | |

2. Composition/Information on Ingredients

| | |
|------------------|---|
| CHEMICAL NATURE: | Contains Glycols, Alcohols, Citric acid, acrylic polymers, preservatives, aqua. |
|------------------|---|

3. Hazards Identification

| | |
|----------------------------------|--|
| ADVERSE HUMAN HEALTH EFFECTS: | This product is not hazardous according to EEC Criteria. |
| PHYSICAL AND CHEMICAL HAZARDS: | |
| - Fire or explosion: | |
| CLASSIFICATION/SPECIFIC HAZARDS: | |

ALL PINELAND ENVIRONMENTAL TECHNOLOGY HACCP PRODUCTS CARRY THE APPROPRIATE SABS MARK

Tel: + 27 (0)21 531 3749 Fax: + 27 (0)21 531 3903

email: info@pineland.co.za website: www.pineland.co.za CK: 1991/00366 7/07 Directors: C Davidson





MATERIAL SAFETY DATA SHEET

| | |
|----------|-----------------|
| PRODUCT: | RINS ASSIST - H |
|----------|-----------------|

4. First Aid Measures (To be done by first aider)

| | |
|---------------|---|
| INHALATION: | There should be no adverse effect from inhalation, however if a reaction does occur, remove patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by a qualified person. Call a physician or transport to medical facility. |
| SKIN CONTACT: | Although no adverse effects should occur, avoid prolonged contact with skin. If contact occurs, wash off in flowing water or shower. |
| EYE CONTACT: | Wash with excess water. Seek medical advice. |
| INGESTION: | Induce vomiting if large amounts are ingested. Never induce vomiting if patient is unconscious or is having convulsions. |

5. Notes to Physician (NB: This treatment is only to be given by a medical doctor or under his supervision)

| | |
|----------------|---|
| INGESTION: | No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient. |
| CARCINOGENITY: | |

6. Fire Fighting Measures

| | |
|----------------------|--|
| EXTINGUISHING MEDIA: | |
| - Suitable: | Water fog, carbon dioxide, alcohol resistant foam, dry chemicals. |
| - Not to be used: | None known |
| SPECIFIC HAZARDS: | Wear positive-pressure self contained breathing apparatus and protective fire fighting clothing. |

7. Accidental Release Measures

| | |
|----------------------------|---|
| PERSONAL PRECAUTIONS: | Wear protective apparel at all times. |
| ENVIRONMENTAL PRECAUTIONS: | Prevent contamination of surface and ground water. |
| METHODS FOR CLEANING UP: | Soak up small spills with absorbent material, remove with rubber shovel and collect for disposal. For large spills dike and pump into appropriate containers. |

ALL PINELAND ENVIRONMENTAL TECHNOLOGY HACCP PRODUCTS CARRY THE APPROPRIATE SABS MARK

Tel: + 27 (0)21 531 3749 Fax: + 27 (0)21 531 3903

email: info@pineland.co.za website: www.pineland.co.za CK: 1991/00366 7/07 Directors: C Davidson



MATERIAL SAFETY DATA SHEET

| | |
|----------|-----------------|
| PRODUCT: | RINS ASSIST - H |
|----------|-----------------|

8. Handling and Storage

| | |
|---------------------------------|--------------------------------|
| HANDLING: | |
| Technical Measures: | |
| STORAGE: | Do not store in open sunshine |
| Technical measures: | |
| Recommended storage conditions: | Keep containers tightly closed |
| Incompatible products: | |
| Packaging: | |
| Packaging materials: | |
| - Recommended: | Plastic |
| - Not suitable: | Metal |

9. Exposure Controls/Personal Protection

| | |
|--------------------------------|--|
| Engineering Measures: | |
| PERSONAL PROTECTIVE EQUIPMENT: | |
| - Hand Protection: | Gloves |
| - Eye Protection: | Goggles |
| - Skin and body Protection: | Avoid prolonged contact with concentrate |

10. Physical and Chemical Properties

| | |
|-------------------------------|------------------------------|
| APPEARANCE: | |
| - Physical state: | Liquid |
| - Colour: | Blue |
| ODOUR: | Slight Alcohol |
| - pH: | 8-9 |
| SPECIFIC TEMPERATURES: | |
| - Melting: | |
| - Boiling: | 90 Degrees C |
| FLAMMABILITY CHARACTERISTICS: | |
| - Flash point: | 85 Degrees C |
| - Ignition temperature: | |
| - Explosion limits: | |
| OXIDIZING PROPERTIES: | |
| DENSITY: | |
| BULK DENSITY: | |
| VAPOUR PRESSURE: | |
| SOLUBILITY: | |
| - In water: | Miscible in all proportions. |
| - In organic solvents: | |

ALL PINELAND ENVIRONMENTAL TECHNOLOGY HACCP PRODUCTS CARRY THE APPROPRIATE SABS MARK

Tel: + 27 (0)21 531 3749 Fax: + 27 (0)21 531 3903

email: info@pineland.co.za website: www.pineland.co.za CK: 1991/00366 7/07 Directors: C Davidson



MATERIAL SAFETY DATA SHEET

| | |
|-----------------|-----------------|
| Product: | RINS ASSIST - H |
|-----------------|-----------------|

11. Stability and Reactivity

| | |
|-------------------------------------|---------------------------------|
| STABILITY: | Stable under normal conditions. |
| HAZARDOUS REACTIONS: | |
| - Materials to avoid: | Oxidising Agents |
| - Conditions to avoid: | |
| - Hazardous decomposition products: | |

12. Toxicological Information

| | |
|-----------------|--|
| ACUTE TOXICITY: | Single dose oral toxicity is very low. Small amounts swallowed, incidental to normal handling operations are not likely to cause injury: Swallowing larger amounts larger than that may cause injury. |
| LOCAL EFFECTS: | Skin absorption is low. Prolonged skin contact with very large amounts may cause drowsiness. Signs and symptoms of excessive repeated exposure may be anaesthetic or narcotic effects. May cause slight irritation to the eyes. Corneal injury is unlikely. Birth defect are highly unlikely. Even exposures having an adverse effect in the mother should have no effect on the fetus. Results of in vitro (test tube) mutagenicity tests have been negative. |

13. Ecological Information

| | |
|------------------------------------|---|
| BEHAVIOUR IN THE ENVIRONMENT: | |
| PERSISTENCE/DEGRADABILITY: | Biodegradation after 30 days is greater than 85%. Degradation is expected in the atmospheric environment within minutes to hours. |
| EXPECTED BEHAVIOUR OF THE PRODUCT: | |
| POSSIBLE IMPACT/EFFECTS: | |
| ECOTOXICITY: | |

ALL PINELAND ENVIRONMENTAL TECHNOLOGY HACCP PRODUCTS CARRY THE APPROPRIATE SABS MARK

Tel: + 27 (0)21 531 3749 Fax: + 27 (0)21 531 3903

email: info@pineland.co.za website: www.pineland.co.za CK: 1991/00366 7/07 Directors: C Davidson





MATERIAL SAFETY DATA SHEET

| | |
|-----------------|-----------------|
| Product: | RINS ASSIST - H |
|-----------------|-----------------|

14. Disposal Considerations

| | |
|---------------------------|--|
| STABILITY: | |
| WASTE FROM RESIDUES: | |
| - Disposal: | |
| CONTAMINATED PACKAGING: | |
| Decontamination/cleaning: | |
| Disposal: | |

15. Transport Information

| | |
|----------------------|--|
| LAND: | Not classified as dangerous for transport. |
| RAIL/ROAD (RID/ADR): | |
| SEA (IMO/IMDG): | |
| AIR (ICAO-IATA): | |

16. Regulatory Information

| | |
|------------------|--|
| EEC REGULATIONS: | |
| HAZARD SYMBOL: | |
| R PHRASES: | |
| S PHRASES: | |

17. Other Information

| | |
|--------|--|
| USES: | |
| OTHER: | |

The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended.

The classification was effectuated according to information derived from technical literature and supplier companies.

Information included in this document is based on our present state of knowledge, however, they do not assure the product properties and do not assume any legal condition.

The material safety data sheet completes the product information without replacing it.

ALL PINELAND ENVIRONMENTAL TECHNOLOGY HACCP PRODUCTS CARRY THE APPROPRIATE SABS MARK

Tel: + 27 (0)21 531 3749 Fax: + 27 (0)21 531 3903

email: info@pineland.co.za website: www.pineland.co.za CK: 1991/00366 7/07 Directors: C Davidson

