



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **RAIZER 700 SURFACTANT**
Chemical Name of Active Ing: 350g/L Soyal Phospholipids and 350g/L Propionic acid
Product Use: Surfactant
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd
Address: Level 1/93 Bolt Road
Tahunanui, Nelson
Telephone: +64 3 543 8275
Email: nzorders@adama.com

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 2 July 2019

Section 2. Hazards Identification

This substance is hazardous according to the *Hazardous Substances (Classification) Notice 2017*

EPA Approval No: Additives, Process Chemicals and Raw Materials (Corrosive) – HSR002491

Pictograms



Toxic Corrosive Ecotoxic

Signal Word: **DANGER**

| HSNO Classification | Hazard Code | Hazard Statement | GHS Category |
|---------------------|-------------|--|-------------------|
| 6.1D (oral) | H302 | Harmful if swallowed. | Acute Tox. 4 |
| 6.1D (dermal) | H312 | Harmful in contact with skin. | Acute Tox. 4 |
| 6.1D (inh) | H332 | Harmful if inhaled. | Acute Tox. 4 |
| 8.2B | H314 | Causes severe skin burns and eye damage. | Skin Corr. 1B |
| 8.3A | H318 | Causes serious eye damage. | Eye Corr. 1 |
| 9.1B | H411 | Toxic to aquatic life with long lasting effects. | Aquatic Chronic 2 |
| 9.3B | H432 | Toxic to terrestrial vertebrates. | - |

| Prevention Code | Prevention Statement |
|-----------------|---|
| P103 | Read label before use. |
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P260 | Do not breathe mist, fumes, vapours or spray. |

| | |
|------|---|
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective clothing as detailed in Section 8. |

| Response Code | Response Statement |
|----------------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P363 | Wash contaminated clothing before reuse. |
| P391 | Collect spillage. |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P301 + P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303 + P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304 + P340 | IF INHALED: Remove to fresh air and keep at rest in a position 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. |

| Storage Code | Storage Statement |
|---------------------|--------------------------|
| P405 | Store locked up. |

| Disposal Code | Disposal Statement |
|----------------------|---|
| P501 | Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container. |

Section 3. Composition / Information on Ingredients

| Ingredients | Wt % | CAS NUMBER. |
|---------------------------|-------------|--------------------|
| Propionic acid | 305g/L | 79-09-4 |
| Soyal Phospholipids | 350g/L | 8002-43-5 |
| Water | To bal | 7732-18-5 |
| Non Hazardous surfactants | 100-300g/L | - |

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on Skin Remove contaminated clothing. Gently wash skin with water and soap for 15 minutes or until chemical is removed. If skin irritation occurs: Get medical advice/ attention.

If Swallowed Rinse mouth. Do NOT induce vomiting.. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Harmful if swallowed.
Inhalation: Harmful if inhaled.
Skin: Harmful in contact with skin. Causes severe skin burns.
Eye: Causes serious eye damage.
Chronic: Not applicable.

Notes to Doctor: There is no specific antidote. Treat symptomatically and give supportive therapy.

Section 5. Fire Fighting Measures

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| Hazard Type | Non Flammable or combustible |
| Hazards from products | May produce hazardous by-products |
| Suitable Extinguishing media | Carbon dioxide (CO2), dry chemical, Water spray, fog, water spray. |
| Precautions for firefighters and special protective clothing | Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or gases. |
| HAZCHEM CODE | 2X |

Section 6. Accidental Release Measures

Wear suitable protective clothing, gloves and eye/face protection. Evacuate all unnecessary personnel.

Environmental precautions

In the event of a major spill, prevent spillage from entering into drains and water courses.

Methods and material for containment and cleaning up

Absorb in sand or other inert material. Disposal according to the local legislation. Wash away remainder with water and soap – collect and contain as much free liquid as possible for later disposal.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not breathe mist, fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store in original, unopened container in cool, dry place, well ventilated place, out of direct sunlight and away from stockfeed or foodstuffs.

- As a Class 9 Substance with Ecotoxicity Classifications, storage of Raizer 700 Surfactant must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS 8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA | | STEL | |
|-----------|-----|-------------------|------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

Ventilation required.

Personal Protection Equipment



| | |
|-----------------------|--|
| Eyes | Safety goggles or face shield. |
| Hands and Skin | Chemical resistant gloves.(PVC or nitrile rubber). Wear suitable protective clothing. Chemical resistant boots. |
| Respiratory | This product should only be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested. |
| General | When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use. |

Section 9 Physical and Chemical Properties

| | |
|--|---|
| Appearance | Dark brown liquid |
| Odour | Pungent vinegar-like odour |
| Odour Threshold | Not applicable |
| pH | 3.6 (1% in water) |
| Boiling Point | Approximately 100°C at 100kPa |
| Freezing/Melting Point | No specific data. Liquid at normal temperatures |
| Flash Point | Not applicable |
| Flammability | Non Flammable |
| Upper and Lower Exposure Limits | Not applicable |
| Vapour Pressure | 2.37 kPa @ 20°C (water vapour pressure) |
| Specific Gravity | 1.022 |
| Solubilities in water | Completely soluble in water |
| Coeff Oil/water distribution: | 4.87 (propionic acid) (log P octanol/water) |
| Auto-ignition Temperature | Not applicable |
| Viscosity | Not applicable |
| Decomposition point: | Not applicable |
| Volatiles | Water component |

Section 10. Stability and Reactivity

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| Stability of Substance | This product is stable under normal conditions. |
| Conditions to Avoid | Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. |
| Incompatible Materials | Bases, strong oxidizing agents. |
| Hazardous Decomposition Products | Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide. Water is also formed. May form oxides of phosphorus and other phosphorus compounds. Carbon monoxide poisoning produces headaches, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment and unconsciousness followed by coma and death. |

Section 11 Toxicological Information

Acute Effects:

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|-------------------|-------------------------------|
| Swallowed | Harmful if swallowed. |
| Dermal | Harmful in contact with skin. |
| Inhalation | Harmful if inhaled. |
| Skin | Causes severe skin burns. |
| Eye | Causes serious eye damage. |

Chronic Effects:

| | |
|-------------------------------|-----------------|
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Not applicable. |

Section 12. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.
9.3B = Toxic to terrestrial vertebrates.

| | |
|--------------------------------------|--|
| Persistence and degradability | This product is biodegradable. |
| Bioaccumulation | No data available |
| Mobility in Soil | It will not accumulate in the soil or water or cause long term problems. |
| Other adverse effects | No data available |

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle.

Precautions and methods to avoid:

Avoid contamination of any water supply with product or empty container.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road and Rail Transport

UN No: 1760
 Class-primary 8
 Packing Group II
 Proper Shipping Name: CORROSIVE LIQUID, N.O.S (Propionic acid 35%)

Air Transport

UN No: 1760
 Class-primary 8
 Packing Group II
 Proper Shipping Name: CORROSIVE LIQUID, N.O.S (Propionic acid 35%)

Marine Transport

UN No: 1760
 Class-primary 8
 Packing Group II
 Proper Shipping Name: CORROSIVE LIQUID, N.O.S (Propionic acid 35%)
 Marine Pollutant Yes

Special Provisions:

If the product's individual container is below 1L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

EPA Approval No: Additives, Process Chemicals and Raw Materials (Corrosive) – HSR002491
 HSNO Classification: 6.1D(oral, dermal, inh), 8.2B, 8.3A, 9.1B, 9.3B

| HSW (HS) Regulations 2017 | Trigger Quantity/Regulation |
|---|--|
| Certified Handlers | Not required |
| Location Certificate | 250L (8.2B) |
| Signage Trigger Quantities (Schedule 3) | 250L (8.2B) |
| Emergency Response Plan (Schedule 5) | 1000L (8.2B, 9.1B) |
| Secondary Containment (Schedule 5) | 1000L (8.2B, 9.1B) |
| Tracking (Schedule 26) | Not required |
| HSNO Additional Controls (Restrictions of use) | |
| | For intended use only |
| Hazardous Property Controls Notice 2017 | |
| HPC Notice Part 4 Clause 47 | Equipment for class 9 substances must be appropriate |

| | |
|--|--|
| HPC Notice Part 4 Clause 48 | Records of application of class 9 pesticides and plant growth regulators |
| HPC Notice Part 3 | Hazardous substances in a place other than a workplace |
| HPC Notice Part 4 Subpart A | Site and storage controls for class 9 substances |
| ACVM Act and Regulations | |
| ACVM Approval No See www.foodsafety.govt.nz for registration controls | Not applicable. |

Section 16 Other Information

Glossary

| | |
|------|---|
| EC50 | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| LC50 | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD50 | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level |
| WES | Workplace Exposure Limit |

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the ADAMA, if further information is required.

Issue Date: 2 July 2019

Review Date: 2 July 2024