



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)
0800 734 607 (24hr Emergency Response)**

Date of SDS Preparation: 4 July 2024

Section 2. Hazards Identification

This substance is hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020

HSNO Approval: Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2020- HSR002491

Pictograms



Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement
Acute oral toxicity Category 4	H302	Harmful if swallowed.
Acute dermal toxicity Category 4	H312	Harmful in contact with skin.
Acute inhalation toxicity Category 4	H332	Harmful if inhaled.
Skin corrosion Category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage Category 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment chronic Category 2	H411	Toxic to aquatic life with long lasting effects.
Hazardous to terrestrial vertebrates	H432	Toxic to terrestrial vertebrates.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read the label carefully before use and follow all instructions.
P260	Do not breathe mist, fumes, vapours or spray.
P264	Wash hands and any exposed skin 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 unintended release into 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.
P301 + P312 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P310 + P353 + P361	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
P304 + P312 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P310 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.

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. Immediately call a POISON CENTER or doctor/physician.
If on Skin	Remove contaminated clothing. Gently wash skin with water and soap for 15 minutes or until chemical is removed. Immediately call a POISON CENTER or doctor/physician.
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

Hazard Type	Non-Flammable or combustible
Hazards from products	May produce hazardous by-products
Suitable Extinguishing media	Carbon dioxide (CO ₂), 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 carefully before use and follow all instructions.
- 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 unintended 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 substance with aquatic 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.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3

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	4.87 (propionic acid) (log P octanol/water)

distribution:	
Auto-ignition Temperature	Not applicable
Viscosity	Not applicable
Decomposition point:	Not applicable
Volatiles	Water component

Section 10. Stability and Reactivity

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:

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

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

Section 13. Disposal Considerations

Disposal Method: Dispose of this product only by using according to the label or at an approved landfill.

Container Disposal: Triple rinse container and add rinsate to spray tank. Empty containers and product should not be burnt. Dispose of container in a suitable landfill or take to an Agrecovery collection site. Do not use container for any other purpose.



Precautions: Do not allow product to enter waterways.

Disposal methods to avoid: Do not burn product or container.

Section 14 Transport Information

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



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 (Hazard Classification) Notice 2020**

HSNO Approval: Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2020 – HSR002491

HSNO Classification: Acute oral toxicity Category 4, Acute dermal toxicity Category 4, Acute inhalation toxicity Category 4, Skin corrosion Category 1B, Serious eye damage Category 1, Hazardous to the aquatic environment chronic Category 2, Hazardous to terrestrial vertebrates.

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 1	Hazardous Property Controls preliminary provisions
HPC Notice Part 3	Hazardous substances in a place other than a workplace
HPC Notice Part 4 Subpart A	Substances that are hazardous to the environment: Site and storage controls
HPC Notice Part 4 Subpart B	Use of substances that are hazardous to the environment
HPC Notice Part 4 Clause 47	Equipment for environmentally hazardous substances must be appropriate
HPC Notice Part 4 Clause 52	Agrichemicals that are hazardous to the aquatic environment must not be applied to water
ACVM Act and Regulations	
ACVM Approval No See www.foodsafety.govt.nz for registration controls	Exempt from registration.

Glossary

ACVM	Agricultural Compounds and Veterinary Medicines Act 1997.
EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority.
HSNO	Hazardous Substances and New Organisms Act 1996.
HSW	Health and Safety at Work Act 2015.
HSW (HS) Regulations	Health and Safety at Work (Hazardous Substances) Regulations 2017.
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.
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
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer:

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