

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Arma**
 Product Use: Agricultural Adjuvant
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Agrisource 2000 Ltd**
 Address: 45 Kitchener Road
 Pukekohe, Auckland

Telephone: +64 9 237 0422
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 15 March 2022

Section 2. Hazards Identification

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

EPA Approval No: Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020 - HSR002503

Pictograms



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Skin irritation Cat. 2	H315	Causes skin irritation.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before re-use.

P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt	CAS NUMBER.
Alkylamine ethoxylate	30 - 50	70955-14-5
Citric Acid	1 - 10	77-92-9
Other Non Hazardous ingredients	Balance	-

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
If on Skin	Take off contaminated clothing and wash before re-use. Wash skin with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Wash out mouth thoroughly with water. Do NOT induce vomiting. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
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:	Harmful if swallowed. Causes skin irritation. Causes damage to eyes.
-----------	----------------------------------------------------------------------------

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	Fume. Carbon monoxide. Carbon dioxide.
Suitable Extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream.
Precautions for firefighters and special protective clothing	Do not enter fire area without proper protective equipment, including respiratory. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
HAZCHEM CODE	2X

Section 6. Accidental Release Measures

Avoid contact with skin and eyes. Wear PPE as detailed in Section 8. Evacuate unnecessary personnel.

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local Authorities detailed in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not eat, drink or smoke when using this product.
- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Provide good ventilation in process area to prevent formation of vapour.
- 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.
- Keep only in the original container in a cool, well ventilated place away from strong bases, acids, direct sunlight or sources of ignition.
- Keep container closed when not in use.

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 2020 12TH EDITION.

Engineering Controls

Ensure ventilation is adequate.

Personal Protection Equipment



Eyes	Chemical goggles or safety glasses.
Hands	Wear protective gloves.
Skin	Wear suitable protective clothing.
Respiratory	Wear appropriate mask.
General	Do not eat, drink or smoke during use.

Section 9. Physical and Chemical Properties

Appearance	Liquid
Colour	Amber
Odour	Characteristic
Odour Threshold	Not available
pH @23°C	Not available
Boiling Point	>100°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	>93°C
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.075
Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Octanol/Water Particle Coefficient	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable when stored in original container under normal conditions of storage and use.
Possibility of hazardous reactions	Relatively stable in neutral, weakly acidic and weakly alkaline media.
Conditions to Avoid	Direct sunlight. Extremely high or low temperatures.
Incompatible Materials	Strong acids. Strong bases.
Hazardous Decomposition Products	Fume. Carbon monoxide. Carbon dioxide.

Section 11. Toxicological Information**Acute Effects:**

Swallowed	Harmful if swallowed. ATE CLP (oral) = 1078.051 mg/kg bodyweight
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye damage.
Skin	Causes skin irritation.

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.

CITRIC ACID ANHYDROUS POWDER (77-92-9)

LD50 oral rat	3 mg/kg
LD50 oral	5040 mg/kg

Section 12. Ecotoxicological Information

Product:	
Persistence and degradability	May cause long-term adverse effects in the environment. Not established.
Bioaccumulation	No data available.
Mobility in Soil	No data available
Other adverse effects	No data available

Individual component information:**Alkylamine ethoxylate (70955-14-5)**

LC50 - Fish [1]

22.5 mg/l

Section 13. Disposal Considerations**Disposal Method:**

Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**Precautions or methods to avoid:** None known.**Section 14. Transport Information****This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012****Section 15. Regulatory Information**

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

EPA Approval Code: Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020 - HSR002503

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	1000L
Emergency Response Plan (Schedule 5)	10 000L
Secondary Containment (Schedule 5)	10 000L
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
Location Certificate	Not require.
HSNO Additional Controls (Restrictions of use)	
	None known.

Glossary

Cat	Category	
EC ₅₀	Median effective concentration.	
EEL	Environmental Exposure Limit.	
EPA	Environmental Protection Authority	
HSNO	Hazardous Substances and New Organisms.	
HSW	Health and Safety at Work.	
LC ₅₀	Lethal concentration that will kill 50% of the test organisms	inhaling or
ingesting it.		
LD ₅₀	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 2020 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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd 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. While TCC (NZ) have 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, TCC (NZ) Ltd accept 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

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the Agrisource 2000 Ltd, if further information is required.

Issue Date: 15 March 2022 Review Date: 15 March 2027