SECTION 1 : CHEMICAL PRODUCT AND COMPANY INFORMATION

SYNONYMS:	Acid Sachets, Acid Detergent
PROPER SHIPPING NAME:	Sulphamic Acid
CAS NUMBER:	5329-14-6
UN NUMBER:	2967
PRODUCT USE:	General purpose Acidic detergent for farm dairy use
SUPPLIER:	Agmax Industries Limited, 63b Allens Road, East Tamaki, 2013, Auckland Telephone: +64 9 271 5290
24 H Emergency Contact:	**0800 243 622 (24 Hours)**
Website:	www.agmax.co.nz
Email:	info@agmax.co.nz

SECTION 2 : HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

Classified as Hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms legislation and GHS 7th Edition.

GHS Hazard Statements

Physical Hazards:	Highly corrosive liquid.
Health Hazards:	May be fatal if swallowed. Causes serious eye and skin damage .
Environmental Hazards:	Toxic to aquatic life. May cause long-lasting harmful effects. Harmful to aquatic life.

HSNO Classification and Hazard Statements:

6.1D,8.1A, 8.2C, 8.3A, 9.1C, 9.3C

6.1D Acutely Toxic Substance (Medium Hazard)

H302 Harmful if swallowed

H312 Harmful in contact with skin

8.1A Metallic corrosive

H290 May be corrosive to metals

8.2C Dermal corrosive (skin)

H314 Causes severe skin burns and eye damage

8.3A Ocular corrosive (eye)

H318 Causes serious eye damage

9.1C Harmful to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

9.3C Harmful to terrestrial vertebrates

H433 Harmful to terrestrial vertebrates

Prevention statements:

P102 Keep out of reach of children

P103 Read label before use

P234 Keep only in original container

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 into the environment.

P280 Wear protective gloves and clothing

Response statements:

P101	If medical advice is needed, have product container or label at hand
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.
P330	Rinse Mouth
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P312	Call a POISON CENTER or doctor/physician if you feel
P322	Specific measures (see First Aid section on the label)
P363	Wash contaminated clothing before re-use
P390+P391	Absorb/ Collect spillage
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call POISON CENTER or doctor/physician

Storage statements:

P405 Store locked up

P406 Store in corrosive resistant container with a resistant inner liner

Disposal statements:

P501 Dispose of empty containers safely in accordance with local regulations.

SECTION 3 : COMPOSITION

Appearance: Slightly moist white powder

Ingredient	CAS Number	Proportion
Sulphamic Acid	**5329-14-6**	>80%
Surfactants		<20%

SECTION 4 : FIRST AID MEASURES

If medical advice is needed, have product container or label on hand

Refer First Aid instructions on label

SWALLOWED
If Swallowed: Rinse mouth then give a glass or two of water or milk, DO NOT induce vomiting unless medical assistance is delayed by 15 minutes (take care to avoid patient inhaling stomach contents). If breathing stops, mouth to nose resuscitation. Arrange urgent transport to hospital.
Immediately call a POISON CENTER or doctor/physician
Never give anything by mouth to an unconscious person.

EYE
If in Eyes: Wash eye with gently running water for at least thirty minutes. Do not rub the eye. Cover with sterile dressing. Seek medical attention immediately. Immediately call a Poison Centre or doctor/physician.

SKIN
Skin Contact: Quickly remove contaminated clothing. Wash skin with large quantities of water. Bathe affected areas in warm saline solution. Seek medical attention. Immediately call a Poison Centre or doctor/physician. Wash contaminated clothing and shoes before reuse.

INHALED
If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply resuscitation if victim is not breathing. Do not use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device. Administer oxygen if breathing is difficult.

NOTES TO PHYSICIAN
Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved and take precautions to protect themselves. Treat symptomatically and supportively.

SECTION 5 : FIRE FIGHTING MEASURES

GENERAL MEASURES
Clear area of all non-firefighting personnel. If safe to do so, move undamaged containers from fire area. Do NOT move cargo if cargo has been exposed to heat. Dam fire control water for later disposal. Avoid generating dust.

FLAMMABILITY CONDITIONS
Non-combustible.

EXTINGUISHING MEDIA
In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions include Foam; Carbon dioxide (CO2); Water spray jet.

FIRE AND EXPLOSION HAZARDS
Fire fighters to wear self-contained breathing apparatus if risk or exposure to products of decomposition. Electrical conductor.

HAZARDOUS PRODUCTS OF COMBUSTION
Fire or heat will produce irritating, toxic, and/or corrosive gases.

SPECIAL FIRE FIGHTING INSTRUCTIONS
Runoff from fire control or dilution water may be toxic and/or corrosive and pollute waterways.

PERSONAL PROTECTIVE EQUIPMENT
Wear self-contained breathing apparatus (SCBA) with a full face-piece, in positive pressure mode. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is recommended for fire situations ONLY - it is NOT effective for spills.

FLASH POINT
No Data Available

LOWER EXPLOSION LIMIT
No Data Available

UPPER EXPLOSION LIMIT
NO Data Available

AUTO INGINTION TEMPERTAURE
No Data Available

HAZCHEM CODE
2X

SECTION 6 : ACCIDENTAL RELEASE MEASURES

General Response Procedure
Ventilate enclosed spaces before entering. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin and eyes

Clean Up Procedures
Contain and absorb. Avoid contamination of waterways. Small quantities can be neutralized with soda ash provided the area is (can be) well ventilated and washed to drain with large quantities of water.
Electrical conductor - isolate power in case of spills.

Containment
Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Dike and clean up all spills immediately.

Decontamination
Dilute with plenty of water and neutralise using Soda Ash or Lime.

Environmental Precautionary Measures
Drains for storage or work areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.

Evacuation Criteria
Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground.

Personal Precautionary Measures
Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for spills.

SECTION 7 : HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING
Corrosive – Nonflammable

Avoid spilling, skin and eye contact. Wear protective clothing, including elbow length PVC gloves and suitable eye protection.

Use with adequate ventilation – avoid creation and inhalation of aerosols.

After use wash hands before eating, drinking or smoking.

Do not handle broken packages unless wearing appropriate personal protective equipment.

STORAGE CONDITIONS
Store in well ventilated area.

Store away from alkalis, metals and strong oxidizers.

Store in original container, tightly closed, away from foodstuffs and out of reach of children.

SHELF LIFE
Use within 5 Years

SECTION 8 : EXPOSURE CONTROLS & PERSONAL PROTECTION

EXPOSURE LIMITS
No exposure limits set by NOHSC or ACGIH

ENGINEERING CONTROLS
Use with adequate ventilation – avoid creation and inhalation of aerosols.

EYE/FACE PROTECTION
Use safety glasses (with side shields).
SKIN PROTECTION
Chemical protective gloves should be worn when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.
OTHER PROTECTION
Wear overalls, use elbow length PVC gloves and suitable eye protection.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Moist white powder

PHYSICAL PROPERTIES
Miscible in water

Specific Gravity:	2100 – 2180 g/cm^3
pH value:	1.7 – 2.7

SECTION 10 : STABILITY AND REACTIVITY

REACTIVITY
Contact with alkaline material liberates heat

CHEMICAL STABILITY
Stable under normal storage conditions

SECTION 11 : TOXICOLOGICAL INFORMATION

General Information
No Data Available

Acute

INGESTION
ACUTE TOXICITY: ORAL Rat LD50 >2,000 mg/kg (OECD 401)
SYMPTOMS: irritations of mucous membranes in the mouth,pharynx,oesophagus and gastrointestinal tract.

INHALATION
ACUTE TOXICITY: INHALATION
SYMPTOMS: cough,shortness of breath,irritation symptoms in the respiratory tract.

SKIN IRRITANT
SKIN CORROSION/IRRITATION
SPECIES: Rabbit
RESULT: Severe Irritant
METHOD: OECD test guideline 404

EYE IRRITANT
EYE DAMAGE/IRRITATION
SPECIES: Rabbit
RESULT: Severe irritation
METHOD: OECD test guideline 405

MUTAGENICITY
Mutagenicity (mammal cell test): micronucleus
Result: negative
Method: OECD test guideline 474
Ames test: Salmonella typhimurium
Result: negative
Method: OECD test guideline 471 11.

CARCINOGEN CATEGORY
No

Data Obtained from Raw Material MSDS

SECTION 12 : ECOLOGICAL INFORMATION

ECOTOXICITY
Toxicity to fish:
Species: pimephales promelas (fathead minnow)
LC50: 70.3 mg/l
Exposure time : 96 h
Method : OECD test guideline 203 Toxicity to bacteria

Species: Pseudomonas putida
EC10 >= 1.000 mg/l
Exposure time: 16 h
Method: IUCLID

Persistence/Degradability
No information available.

Mobility
No information available.

Environmental Fate
Harmful effect due to pH shift. Do not allow to run into surface waters, wastewater, or soil.

Bioaccumulation Potential
Partition coefficient: n-octanol/water
log Pow: 0.10
Method: experimental
(Lit.) Bioaccumulation is not expected (log Pow<1)
Data Obtained from Raw Material MSDS

SECTION 13 : DISPOSAL CONSIDERATIONS

CONTAINER DISPOSAL
Dispose of empty containers safely in accordance with local regulations.
Triple rinse containers when empty, hold slurry.
Avoid contamination of natural water supplies with chemical or empty container.
After cleaning, all existing labels should be removed.
Dispose of in accordance with local regulations.

SECTION 14 : TRANSPORT INFORMATION

UN No.	2967
Dangerous Goods Class:	8 - Corrosive
Hazchem code:	2X
Packing group:	III
Proper Shipping Name:	Sulphamic Acid
Segregation:	Don't store with D.G classes 1, 5, 7, strong alkali's, food or food containers.

SECTION 15 : REGULATORY INFORMATION

ERMA Approval Code:	**HSR002526**
Group Standard:	Cleaning Products (Corrosive)
MPI:	MPI Approved for use in farm dairies

Subclasses:

Subclass 6.1 Category D - Substances which are acutely toxic.

Subclass 8.1 Category A - Substances that are corrosive to metals.

Subclass 8.2 Category C - Substances that are corrosive to dermal tissue.

Subclass 8.3 Category A - Substances that are corrosive to ocular tissue.

Subclass 9.1 Category C - Substances that are harmful in the aquatic environment.

Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.

Hazard Statement(s):

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H333 May be harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

H433 Harmful to terrestrial vertebrates.

SECTION 16 : OTHER INFORMATION

New Zealand Poisons Information Center 0800 POISON (0800 764 766)

EPA	The Environmental Protection Authority of New Zealand
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
HSHO	Hazardous Substances and New Organisms Act 1996
MPI	Ministry for Primary Industries

Disclaimer:

The data given relates to this product alone, and not to its use in conjunction with other substances or products. In such circumstances, assuming the combination is permitted, refer to product labels, be guided by the most hazardous of the substances involved and observe the more stringent hazard controls applicable.
The information contained in this Safety Data Sheet was obtained from current and reliable sources. The data is supplied without warranty, expressed or implied regarding its correctness and accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss, injury, damage, or expense resulting from improper use of this product.

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