



AquaAcid XL

Abbey Animal Health Pty Ltd SAFETY DATA SHEET

Section 1- Identification of Product and Supplier

Supplier Company Details: Abbey Animal Health Pty Ltd

Address: 16 Voyager Circuit Glendenning NSW 2761

Telephone Number: 02 8088 0720

Facsimile Number: 02 8088 0721

Emergency Number: Australian Poisons Information Centre: 13 11 26 (24 Hour Service).

PRODUCT NAME

AquaAcid XL

PRODUCT USE

A liquid premixture of Formic acid and Sodium formate for improving the hygienic quality of feed and drinking water.

Section 2- Hazards Identification

Statement of Hazardous Nature

This product is classified as: Hazardous according to the criteria of SWA.

Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

ADG Classification: Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

GHS Classification: Skin Corrosion/irritation- Category 2; Serious eye damage/irritation- Category 1; Specific target organ toxicity (Single exposure)- Category 3.

GHS Signal word: DANGER

Pictogram



Hazard statements

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: may cause respiratory irritation.

PREVENTION

P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves.

RESPONSE

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340: IF INHALED: Remove victim 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.

P310: Immediately call a POISON CENTRE or doctor/physician.

P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

STORAGE

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. - *if product*

P405 Store locked up.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Section 3- Composition / Information on Ingredients

INGREDIENTS:

Chemical Name	CAS Number	Conc.
Sodium formate	141-53-7	28-36%
Formic acid	64-18-6	51-63%

Section 4- First Aid Measures

Call Poisons Information Centre Phone Australia 131 126, if you feel that you may have been poisoned or irritated by this product.

Swallowed: DO NOT INDUCE VOMITTING! Give 1-2 glasses of water to drink if the patient is conscious. If available give cream, cooking oil or other fat liquid to drink. Get medical advice quickly!!

Skin: Immediately remove contaminated clothing, wash and flush skin with copious amounts of water. Contact physician upon extensive injuries and continue flushing until physician arrives. If only small amounts have been exposed to skin: Flush with copious amounts of water. Add an ointment for burn to the exposed areas of skin. Summon physician if discomfort persists or blisters are formed.

Eye: Immediately flush with large amounts of water (open eyelids). Remove contact lenses if present. Contact physician and continue flushing until physician takes over.

Inhaled: Contact physician if signs of unconsciousness or discomfort.

Section 5- Fire Fighting Measures

Fire/Explosion Hazard: The product is not flammable. During ensiling explosive gases may be formed. The product evolves heat in contact with water. Formic acid will decompose into carbon monoxide (CO) and water when heated, and the decomposing will increase quickly when the temperature rises above 100 °C.

Hazardous Combustion Products: Carbon monoxide.

Extinguishing Media & Methods: Use extinguishing media appropriate for surrounding fire.

Precautions for fire fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Conditions to avoid: Keep away from open flame. Formic acid can cause corrosion of metals and paints. During the ensiling process explosive gasses might form.

Section 6 - Accidental Release Measures

Spills

Minimize spreading. Avoid emissions to water or drains. Inform appropriate authorities if large amounts are involved.

Methods for cleaning up: Spillage may be pumped up or absorbed with dry, inert material such as sand, earth etc. Place in suitable containers. Label containers with the name and composition of the product. Dispose of in accordance with local regulations for waste handling (see SDS section 13).

Section 7 - Handling and Storage

Handling: Limit all unnecessary personal contact. Use only as directed. Avoid contact with eyes and skin. Use personal protective equipment as required. Wash hands after use.

Storage: Store below 30°C (Room temperature) In a dry and dark place, frost-free. Keep away from nitric acid, nitrates, nitrites and peroxides. May release CO gas during long storage periods. Cracking can occur in gas-tight containers.

Section 8 - Exposure Controls / Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits

TWA (mg/m³)

Formic acid

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Engineering Controls: HYGIENIC ROUTINES: Wash hands before brakes and after working with the product. Controlling the exposure: Absorption of formic acid in a lye solution can be a proper sampling method.

Personal Protective Equipment (PPE): Use good industrial hygiene. Avoid skin and eye contact. Prevent dispersion of dust. If inhalation risk occurs, wear organic vapour respirator. Wear protective clothing when opening container and handling such as cotton overalls buttoned to neck, elbow-length PVC gloves, washable hat, goggles, disposable dust mask. Always wash hands and face after use, especially before eating, drinking or smoking.

Personal Hygiene: Do not eat, drink or smoke when handling this product.

Section 9 - Physical and Chemical Properties

Physical State	Liquid. Mist formation in humid air.
pH (in aqueous solution)	~2.8
Boiling point	>100°C
Vapour pressure	33.4mmHg
Density	1.322 – 1.402
Solubility	Miscible in water

Section 10 - Stability and Reactivity

Stability of the Substance: Product is stable under normal conditions of storage. Formic acid may cause corrosion of metals and painting.

Conditions to avoid: High or low temperature.

Incompatible materials Reacts violently with peroxides, nitric acid and nitrates. Reacts with alkaline and forms heat.

Hazardous decomposition products: Formic acid will be decomposed to carbon monoxide (CO) and water when heated, and the decomposing will increase quickly when the temperature reaches above 100 °C.

Section 11 - Toxicological Information

Inhalation: May cause burns to mucous membranes, throat, esophagus and stomach. May lead to sickness and vomiting. Vomiting may lead to aspiration of the product to lungs.

Skin sensitization: May cause severe burns to skin with deep wounds and cicatrical tissue. Contact with the liquid may give smarting, scratching and may lead to formation of blisters, which also may be formed after the liquid is flushed away.

Eye contact: Corrosive. May cause blindness.

Mutagenicity: No mutagenic activity was found in various tests with bacteria and mammalian cell cultures. Experimental / calculated data for formic acid: Ames test negative Cytogenetic test negative.

Carcinogenicity: The product has not been tested. The information is derived from products of a similar structure or composition. Long-term experiments on rats and mice given the substance in the feed no carcinogenic effect was found.

Reproductive toxicity: Test reference: The product was not tested. The information has been derived from products of a similar structure or composition. On the basis of animal studies, a teratogenic effect can be excluded

Specific target organ toxicity- single exposure: No effects identified in animal studies.

Specific target organ toxicity- repeated exposure: Even after repeated ingestion the corrosive effect is dominating.

Section 12 - Ecological Information

Potential Environmental Considerations: No environmental data exists. However, avoid contamination of waterways, vegetation and tree roots.

ACUTE TOXICITY

Sodium formate

Fish (<i>Onchorhynchus mykiss</i>)	LC50 >1000mg/L; 96hr
Algae (<i>Pseudokirchneriella subcapitata</i>)	EC50 790mg/L; 48h
Crustacean (<i>Daphnia magna</i>)	EC50 >1000 mg/L; 48h

PERSISTENCE AND DEGRADABILITY

Sodium formate (Biodegradability): 92%; 21 days

Formic acid

Biological Oxygen Demand (BOD)	86mg/g; 5days
Chemical Oxygen Demand (COD)	348mg/g

MOBILITY IN SOIL

Miscible with water

Section 13 - Disposal Considerations

Disposal

Triple-rinse container and dispose of rinsate in compliance with relevant local, state or territory government regulations. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean container to recycler or designated collection point. If not recycling, break, crush, or puncture container and deliver to an approved waste management facility. If an approved waste management facility is not available, bury the broken, crushed or punctured containers 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

Section 14 - Transport Information

ADG Classification

UN number: UN3412

UN proper shipping name: FORMIC ACID with not less than 10% but not more than 85% acid by mass.

Transport hazard class(es)

Class 8

Subsidiary risk -

Packing group II

Hazchem Code: •2X

Section 15 - Regulatory Information

Classified as hazardous material and hazardous waste.

Section 16 – Other Information

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This Safety Data Sheet (SDS) summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace.

Each user must review this SDS in the context of how the product will be handled and used in the workplace.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

First Effective Date: 7th November 2019

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