

SAFETY DATA SHEET

X-CHANGE[®]

Date of Issue: 5 April 2019

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Proprietary blend of water conditioning agents, acidifying agents, pH buffers and anti-foam

Recommended use: Water conditioning

Supplier: Etec Crop Solutions Ltd
PO Box 51584, Pakuranga
Auckland
Phone 0800 100 325

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: **6.1D, 6.3B, 6.9B, 8.3A, 9.1D, 9.3C**

H302 Harmful if swallowed.

H316 Causes mild skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure

H318 Causes serious eye damage.

H402 Harmful to aquatic life.

H433 Harmful to terrestrial vertebrates.

Required identification Details:

Prevention Code: Prevention Statement:

P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe fume, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing.

P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
Disposal Code	Disposal Statement
P501	As per Section 13 on SDS

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Ammonium Sulphate	7783-20-2	2-30%
Citric Acid	77-92-9	5-35%
Diethylene glycol	111-46-6	5-35%

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation:

Remove to fresh air and keep at rest in a position comfortable for breathing.
Apply artificial respiration if necessary. Get medical attention.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Call a physician.

Skin contact:

Remove/Take off immediately all contaminated clothing.
Rinse skin with soap and water
Get medical attention if irritation persists.

Eye contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical attention immediately.

Notes to a physician:

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:

2Z

Extinguishing media :

Carbon dioxide (CO₂), dry chemical, Water spray, fog, water spray.

Hazardous thermal (de)composition products:

May include carbon oxides

Protection of fire-fighters: Wear full protective clothing and self-contained breathing apparatus. Do not breath smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Environmental precautions: Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Methods for cleaning up: In the case of spillage, contain and absorb spilled material with absorbent material such as sand clay or cat litter. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (ie organic solvent, detergent, bleach or caustic) and add the solution to the drums of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local Authorities

7. HANDLING AND STORAGE

Handling: When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

Storage: Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs.

Packaging materials: HDPE Plastic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards: No exposure limit allocated.

**Exposure Standards outside:
The workplace:** No exposure standards have been set for this product or the active ingredients.

Engineering measures

Exposure control measures: Ensure ventilation is adequate, generally natural ventilation is adequate.

Personal Protective Equipment

**Detail specifications for equipment:
Respiratory system:** Do not inhale spray mist.

Skin and body: When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length and PVC/nitrile gloves

and goggles.

Hands:	Elbow-length and PVC/nitrile gloves
Eyes:	Wear goggles.
General hygiene:	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Clear
Odour:	Smells like vinegar
pH:	3 at 100% concentration
Vapour Pressure:	Not established
Boiling Point:	Not established
Freezing/melting point:	N/A
Solubility:	Completely soluble
Specific gravity or density:	1.104 g/ cm ³
Information for flammable material including:	
Octanol/water partition coefficient:	Not available
Explosion properties:	Not explosive
Oxidation properties:	Not an oxidizer

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to avoid:	Avoid contact with strong alkalis
Materials to avoid:	Not available
Hazardous decomposition Products:	May include nitrogen and carbon oxides.
Hazardous polymerization:	Will not occur
Specific Data:	
Hazardous reactions :	None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral : LD₅₀	>3870 mg/kg (rat)
Acute toxicity - Dermal : LD₅₀	>2000 mg/kg (rabbit)
Acute toxicity – Inhalation: LC₅₀	> 2.88 mg/1/4h
Skin irritation :	Mild or slight irritation at 72 hours
Eye irritation:	Corneal involvement or irritation clearing in 7 days or less.
Sensitization :	Not a sensitizer.
Chronic toxicity	No data available on this formulation.
Other information :	

12. ECOLOGICAL INFORMATION

Ecotoxicity	96 hr LC ₅₀ : 70.7 mg/L (Zebra Fish) 24 hr EC ₅₀ : >100 mg/l (Daphnia)
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Bees	96 hr EC ₅₀ : 46.3 mg/l (Algae)
Soil	Not established
Bioaccumulative potential :	Not established
Birds	Not established

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.
CONTAINER DISPOSAL: Triple rinse container and add residue to spray tank. Burn if permitted and circumstances, especially wind direction allow, otherwise bury in landfill.

14. TRANSPORT INFORMATION -International transport regulations

UN number:
Class or Division:
Classification Code: This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

15. REGULATORY INFORMATION

ACVM Registered Number: Not applicable
EPA Approval No: Water Treatment Chemicals (subsidiary) – HSR002684

16. OTHER INFORMATION

Additional information: **Original Issue Date:** 29 September 2006
Revision Date: 5 April 2019
Replaces: ES347

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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