



# SAFETY DATA SHEET

## X-CHANGE<sup>®</sup>

Date of Issue: 5<sup>th</sup> 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:** UPL New Zealand Limited  
PO Box 51584, Pakuranga  
Auckland  
Phone 0800 100 325  
www.upl-ltd.com/nz

**Emergency telephone number:** 0800 CHEM CALL (0800 243 622) 24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** 6.1D, 6.4A, 6.5B

**Required identification Details:** **Signal Word: WARNING**  
Keep out of reach of Children.  
Read label carefully before use.

Harmful if inhaled.  
Causes eye irritation.  
May cause an allergic skin reaction.

### 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.

<b>Skin contact:</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with soap and water Get medical attention if irritation persists.
<b>Eye contact:</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Notes to a physician:</b>	

## 5. FIRE-FIGHTING MEASURES

<b>HAZCHEM Code:</b>	2Z
<b>Extinguishing media:</b>	Carbon dioxide (CO <sub>2</sub> ), dry chemical, Water spray, fog, water spray.
<b>Hazardous thermal (de)composition products:</b>	May include carbon oxides.
<b>Protection of fire-fighters:</b>	Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or gases.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	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.
<b>Environmental precautions:</b>	Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
<b>Methods for cleaning up:</b>	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 (i.e. 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

<b>Handling:</b>	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.
<b>Storage:</b>	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs
<b>Packaging materials:</b>	HDPE Plastic.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace Exposure Guidelines

<b>Exposure Standards:</b>	No exposure limit allocated.
<b>Exposure Standards outside the workplace:</b>	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 chemical 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.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Physical State: Colour, Odour.**

Clear liquid. Vinegar-like odour.

### **pH:**

3 at 100% concentration

### **Vapour Pressure:**

Not established

### **Boiling Point:**

Not established

### **Flash Point:**

### **Freezing/melting point:**

NA

### **Solubility:**

Completely soluble

### **Specific Gravity:**

1.104 g/cm<sup>3</sup>

### **Density:**

### **Information for flammable material:**

### **Viscosity:**

### **Octanol/water partition coefficient:**

Not available

### **Explosive Properties:**

Not explosive

### **Oxidation Properties:**

Not an oxidizer

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## **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.

### **Hazardous reactions:**

None known.

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## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity – Oral:**

LD<sub>50</sub> >3870 mg/kg (rat)

### **Acute toxicity – Dermal:**

LD<sub>50</sub> >2000 mg/kg (rabbit)

### **Acute toxicity – Inhalation:**

LC<sub>50</sub> > 2.88 mg/1/4h

### **Skin irritation:**

Mild or slight irritation at 72 hours.

<b>Eye irritation:</b>	Corneal involvement or irritation clearing in 7 days or less.
<b>Sensitization:</b>	Not a sensitizer.
<b>Chronic Toxicity:</b>	No data available on this formulation.

## 12. ECOLOGICAL INFORMATION

<b>Aquatic</b>	96 hr LC <sub>50</sub> : 70.7 mg/L (Zebra Fish) 24 hr EC <sub>50</sub> : >100 mg/l (Daphnia) 96 hr EC <sub>50</sub> : 46.3 mg/l (Algae)
<b>Bees</b>	Not established
<b>Soil</b>	Not established
<b>Birds</b>	Not established
<b>Bioaccumulation:</b>	Not established

## 13. DISPOSAL CONSIDERATIONS

<b>Methods of disposal:</b>	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 to spray tank. Recycle through the Agrecovery Programme. If this is not possible, bury in landfill.
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<b>Empty container precautions:</b>	Avoid contamination of any water supply with chemical or empty container.
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## 14. TRANSPORT INFORMATION - International transport regulations

<b>UN number:</b>	NA
<b>Class or Division:</b>	This product is NOT classified as a Dangerous Good for transport in NZ ;
<b>Subsidiary Class:</b>	NZS 5433:2012
<b>Packing Group:</b>	
<b>Marine Pollutant:</b>	
<b>Proper shipping name:</b>	

**INTERNATIONAL AIR  
TRANSPORT ASSOCIATION  
(IATA):**

## 15. REGULATORY INFORMATION

<b>ACVM Registered Number:</b>	Not applicable
<b>HSNO Approval Code:</b>	Water Treatment Chemicals (subsidiary) – HSR002684.

## 16. OTHER INFORMATION

<b>Additional information:</b>	<b>Original Issue Date:</b> 29 September 2006 <b>Revision Date:</b> 5 April 2019 <b>Replaces:</b> ES347
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### **Disclaimer EXCLUSION OF LIABILITY: PLEASE READ**

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