

## 1 - IDENTIFICATION

<b>Product Name:</b>	<b>uPRO ORANGE Liquid (UN1759)</b>
<b>Other Names:</b>	N/A
<b>Product Code:</b>	Supp-DIT-uProO-L60
<b>Uses:</b>	Soluble feed additive for livestock drinking water
<b>Chemical Family:</b>	No data available
<b>Chemical Formula:</b>	No data available
<b>Chemical Name:</b>	No data available
<b>CAS:</b>	No data available
<b>Description:</b>	Soluble feed additive for livestock drinking water

### Contact Details of Manufacturer or Importer:

Direct Injection System Pty Ltd                      1300 123 348  
PO Box 2822, Toowoomba

### Emergency Contact Details:

*For emergencies only – DO NOT contact these companies for general advice*

<b>Organisation</b>	<b>Location</b>	<b>Phone</b>
Poisons Information Centre Westmead, NSW		1800 251 525 131126
Chemcall	Australia	1800 127 406 +64 4917 9888

## 2 - HAZARD IDENTIFICATION

<b>Poisons Schedule (Aust)</b>	Not Scheduled
<b>Globally Harmonised System</b>	
<b>Hazard Classification</b>	Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
<b>Hazard Categories:</b>	Skin Corrosion/Irritant – Category 1B, H314
<b>Signal word:</b>	Danger

**Pictograms:**



**Hazard Statement:**            **H314**                            Causes severe skin burns and eye damage.

**Precautionary Statements:**

*Prevention*

**P260**                            Do not breathe dust.

**P280**                            Wear protective gloves/protective clothing/eye protection/face protection

*Response*

**P301+P330+P331**    IF SWALLOWED: rinse mouth. Do NOT induce vomiting

**P303+P361+P353**    IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

**P363**                            Wash contaminated clothing before reuse.

**P304+P340**            IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**P310**                            Immediately call a POISON CENTRE or doctor/physician

**P305+P351+P338**    IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

*Storage*

**P405**                            Store locked up.

*Disposal*

**P501**                            Dispose of contents/container in accordance with local / regional / national / international regulations.

**National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification**                            Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**3 - COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Characterisation:**                            Liquid multi-mixture preparation

**Ingredients:**

Chemical Entity	Formula	CAS Number	Proportion
Urea phosphate	No Data Available	4861-19-2	35-45%
Urea	No Data Available		45-55%
Ammonium Sulphate	No Data Available		<10%

#### 4 - FIRST AID MEASURES

*Description of necessary measures according to routes of exposure*

<b>Swallowed</b>	If swallowed: Rinse mouth and drink plenty of water, do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician.
<b>Eye</b>	Eye contact: Immediately flush with running water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Centre or doctor/physician.
<b>Skin</b>	Skin contact: Remove contaminated clothing and shoes immediately. Flush skin with running water for at least 15 minutes. For minor skin contact, avoid spreading material onto unaffected skin. Immediately call a Poison Centre or doctor/physician. Wash contaminated clothing and shoes before reuse.
<b>Inhaled</b>	Remove victim to fresh air and keep at rest in 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. Immediately call a Poison Centre or doctor/physician.
<b>Advice to Doctor</b>	Treat symptomatically.  Inhalation of product may aggravate: respiratory tract irritation, coughing.

#### 5 - FIRE FIGHTING MEASURES

<b>General Measures</b>	If safe to do so, move undamaged containers from fire area.
<b>Flammability Conditions</b>	Non-combustible. Material does not burn.
<b>Extinguishing Media</b>	Use an extinguishing agent suitable for surrounding fire.
<b>Fire and Explosion Hazard</b>	No information available.
<b>Hazardous Products of Combustion</b>	Fire or heat will produce irritating, toxic and/or corrosive gases. Thermal decomposition products: Ammonia, Carbon dioxide, Carbon monoxide, Nitrogen oxides, Phosphorus oxides.
<b>Special Fire Fighting Instructions</b>	Runoff from fire control or dilution water may be toxic and/or corrosive and pollute waterways.

<b>Personal Protective Equipment</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Flash Point</b>	No Data Available
<b>Lower Explosion Point</b>	No Data Available
<b>Upper Explosion Point</b>	No Data Available
<b>Auto Ignition Temperature</b>	No Data Available
<b>Hazchem Code</b>	2X

## 6 - ACCIDENTAL RELEASES MEASURES

<b>General Response Procedure</b>	Ventilate enclosed spaces before entering. Do not touch or walk through spilled material. Avoid breathing dust.
<b>Clean Up Procedures</b>	Avoid creating dusty conditions. Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licenced waste disposal contractor.
<b>Containment</b>	Stop leak if safe to do so. Prevent entry into waterways, drains or confined areas.
<b>Decontamination</b>	No information available.
<b>Environmental Precautionary Measures</b>	Avoid dispersal of spilt material and runoff, and contact with soil, waterways, drains and sewers.
<b>Evacuation Criteria</b>	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
<b>Personal Precautionary Measures</b>	Put on appropriate personal protective equipment (see section 8).

## 7 – HANDLING AND STORAGE

<b>Handling</b>	Ensure an eye bath and safety shower are available and ready for use. Follow good personal hygiene practices and recommended procedures. Provide adequate ventilation. Avoid generation of dust. Put on appropriate personal protective equipment (see section 8). Do not breathe dust. Do not ingest. Do not get in eyes, on skin or clothing.
<b>Storage</b>	Store in a dry, cool and well-ventilated area. Keep away from heat, sparks and flame. Protect from direct sunlight. Keep away from strong oxidising agents, reducing agents and bases. Keep container tightly closed until ready for use. Containers that have been opened must be carefully resealed and kept upright to

prevent leakage. Do not store in unlabelled container. Use appropriate containment to avoid environmental contamination.

**Container** Keep in the original container or an approved alternative made from a compatible material. Empty containers retain product residue and can be hazardous.

## 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**General** Derived No Effect Level (DNEL) Values for Urea phosphate (CAS No. 4861-19-2):  
-Workers, Local effects: Inhalation (repeated dose): 2.92 mg/m<sup>3</sup>  
-General population, Local effects: Inhalation (repeated dose): 0.73 mg/m<sup>3</sup>

**Exposure Limits** No Data Available

**Biological Limits** No information available.

**Engineering Measures** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**

**Equipment** Respiratory protection: Wear appropriate (approved/certified or equivalent) respirator when ventilation is inadequate.  
Hand protection: Wear protective gloves to prevent skin exposure.  
Eye/face protection: Wear protective safety glasses.  
Skin protection: Wear appropriate long-sleeved clothing to minimise skin contact.

**Special Hazards**

**Precautions** No information available.

**Work Hygienic Practices** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

## 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Liquid

**Appearance** Liquid

**Odour** Odourless

**Colour** Clear (unless orange dye added)

**pH** 2.0 - 3.0%

**Vapour Pressure** No Data Available

**Relative Vapour Density** No Data Available

<b>Boiling Point</b>	>200°C (at 1013hPa)
<b>Melting Point</b>	>200°C (at 1013hPa)
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	Soluble
<b>Specific Gravity</b>	No Data Available
<b>Flash Point</b>	No Data Available
<b>Auto Ignition Temp</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	No Data Available
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temp</b>	No Data Available
<b>Density</b>	No Data Available
<b>Specific Heat</b>	No Data Available
<b>Molecular Weight</b>	No Data Available
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	No Data Available
<b>Particle Size</b>	No Data Available
<b>Partition Coefficient</b>	No Data Available
<b>Saturated Vapour Conc</b>	No Data Available
<b>Vapour Temp</b>	No Data Available
<b>Viscosity</b>	No Data Available
<b>Volatile Percent</b>	No Data Available
<b>VOC Volume</b>	No Data Available
<b>Additional Characteristics</b>	No Data Available
<b>Potential Dust Explosion</b>	No information available.
<b>Fast or Intensely Burning Characteristics</b>	No information available.
<b>Flame Propagation or Burning Rate of Solid Materials</b>	No information available.
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b>	No information available.
<b>Properties that May</b>	

<b>Initiate or Contribute to Fire Intensity</b>	Non-combustible. Material does not burn.
<b>Reactions That Release Gases or Vapours</b>	Fire or heat will produce irritating, toxic and/or corrosive gases.
<b>Release of Invisible Flammable Vapours and Gases</b>	No information available.

## 10 – STABILITY AND REACTIVITY

<b>General Information</b>	Corrosion to metals (non-ferrous, magnesium, aluminium).
<b>Chemical Stability</b>	The product is stable under normal handling and storage conditions.
<b>Conditions to Avoid</b>	Avoid high temperatures.
<b>Materials to Avoid</b>	Avoid oxidising materials, reducing materials and alkalis.
<b>Hazardous Decomposition Products</b>	Thermal decomposition products: Ammonia, Carbon dioxide, Carbon monoxide, Nitrogen oxides, Phosphorus oxides. Dissociates into Urea and Phosphoric acid (corrosive) in aqueous media.
<b>Hazardous Polymerisation</b>	Will not occur.

## 11 – TOXICOLOGICAL INFORMATION

<b>General Information</b>	<p>Irritant and corrosive effects:</p> <ul style="list-style-type: none"><li>-Inhalation: Causes burns to the respiratory tract. Symptoms may include irritation to the noses, throat and upper respiratory tract.</li><li>-Ingestion: Causes burns to the gastrointestinal tract. Symptoms may include severe burns of the mouth, throat and stomach. Ingestion of large quantities may cause gastrointestinal irritation, vomiting and diarrhoea.</li><li>-Skin contact: Causes burns to skin. May cause redness, pain, blisters and severe skin burns.</li><li>-Eye contact: Causes burns to eyes. Symptoms may include redness, pain, blurred vision, eye burns and permanent eye damage.</li></ul> <p>Chronic effects:</p> <ul style="list-style-type: none"><li>-Carcinogenicity: Not listed as a carcinogen or potential carcinogen.</li><li>-Mutagenicity: Negative in Ames tests.</li><li>-Reproductive toxicity: Unlikely to cause adverse effects on reproduction.</li></ul>
<b>Acute Ingestion</b>	<p>Acute Oral Toxicity:</p> <ul style="list-style-type: none"><li>-Rat L50: 2,600 mg/kg bw (OECD Guideline 423)</li></ul>
<b>Carcinogen Category</b>	None

## 12 – ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Aquatic toxicity: -Fish (Freshwater) (96h) LC50>9,100mg/L (Literature) -Daphnia magna (Water flea) (48h) EC50>100mg/L (OECD Guideline 202)  -Desmodesmus subscpicatus (72h) EC50>100mg/L (OECD Guideline 201) -Microcystis aeruginosa (192h) NOEC=47mg/L (Literature) -Aquatic micro-organisms (3h) EC50>100mg/L (OECD Guideline 209) Product is considered as practically non-toxic to aquatic organisms.
<b>Persistence/Degradability</b>	Urea phosphate completely dissociates in water forming Urea and Phosphoric acid. Urea is considered to be readily biodegradable as micro-organisms incorporate Urea into the Nitrogen cycle. Urea is also utilised as a Nitrogen source by terrestrial and aquatic plants. Phosphoric acid will dissolve in water and progressively dissociate.
<b>Mobility</b>	Urea and Phosphoric acid have low potential for adsorption.
<b>Environmental Fate</b>	Urea phosphate completely dissociates in water forming Urea and Phosphoric acid. Potentially local effects to aquatic organisms due to pH lowering of water.
<b>Bioaccumulation Potential</b>	Urea and phosphoric acid have a low potential for bioaccumulation based on physiochemical properties.
<b>Environmental Impact</b>	No Data Available

## 13 – DISPOSAL CONSIDERATIONS

<b>General Information</b>	Waste product/packaging must be disposed of in accordance with federal, state and local regulations. Empty containers should be taken for recycling, recovery or waste disposal.
<b>Special Precautions for Land Fill</b>	No information available.

## 14 – TRANSPORT INFORMATION

### Land Transport (Australia) ADG Code

<b>Proper Shipping Name</b>	CORROSIVE SOLID, N.O.S. (Urea Phosphate)
<b>Class</b>	8 Corrosive Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	37 Toxic And/Or Corrosive Substance, Non-Combustible
<b>UN Number</b>	1759
<b>Hazchem</b>	2X
<b>Pack Group</b>	II



**Special Provision** No Data Available

**Sea Transport**  
**IMDG Code**

**Proper Shipping Name** CORROSIVE SOLIDS, N.O.S. (Urea Phosphate)  
**Class** 8 Corrosive Substances  
**Subsidiary Risk(s)** No Data Available

**UN Number** 1759  
**Hazchem** 2X  
**Pack Group** II  
**Special Provision** No Data Available  
**EMS** F-A, S-B  
**Marine Pollutant** No

**Air Transport**  
**IATA DGR**

**Proper Shipping Name** CORROSIVE SOLIDS, N.O.S. (Urea Phosphate)  
**Class** 8 Corrosive Substances  
**Subsidiary Risk(s)** No Data Available  
**UN Number** 1759  
**Hazchem** 2X  
**Pack Group** II  
**Special Provision** No Data Available

**National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods**

**Classification** Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**15 – REGULATORY INFORMATION**

**General Information** No Data Available

**Poisons Schedule (Aust)** Not Scheduled

**National/Regional Inventories**

**Australia (AICS)** Not Listed

**Canada (DSL)** Not Listed

**Canada (NDSL)** Listed

**China (IECSC)** Listed

**Europe (EINECS)** 225-464-3

<b>Europe (REACH)</b>	Registered
<b>Japan (ENCS/METI)</b>	Not Listed
<b>Korea (KECI)</b>	Not Listed
<b>Malaysia (EHS Register)</b>	Not Listed
<b>New Zealand (NZIoC)</b>	Listed
<b>Philippines (PICCS)</b>	Not Listed
<b>Switzerland (Giftliste 1)</b>	Not Determined
<b>Switzerland (Inventory of Notified Substances)</b>	Not Determined
<b>Taiwan (NCSR)</b>	Listed
<b>USA (TSCA)</b>	Listed

**16 – OTHER INFORMATION**

<b>Related Product Codes</b>	No Data Available
<b>Revision</b>	<b>1.1</b>
<b>Revision Date</b>	<b>13 March 2023</b>