



1 - IDENTIFICATION

Product Name: DIT AgTech Urea Phosphate (UN1759)

Other Names: Not available

Product Code: DIT-IMPORT-UP

Uses: Fertilizer

Chemical Family: No data available

Chemical Formula: H3PO4.CO(NH2)2

Chemical Name: Urea Phosphate

CAS: 4861-19-2

Description: Fertilizer and Mineral for agricultural use

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

Organisation Location Phone

Poisons Information Centre Westmead, NSW 1800 251 525

131126

Chemcall Australia 1800 127 406

+64 4917 9888

2 - HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled

Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System

of Classification and Labelling of Chemicals (GHS)

Hazard Categories: Skin Corrosion/Irritant – Category 1B, H314

Signal word: 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 ClassificationDangerous 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

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Urea phosphate	No Data Available	4861-19-2	>=98%



4 - FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed If swallowed: Rinse mouth and drink plenty of water, do NOT induce vomiting.

Immediately call a Poison Centre or doctor/physician.

Eye 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.

Skin 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.

Inhaled 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.

Advice to Doctor Treat symptomatically.

Inhalation of product may aggravate: respiratory tract irritation, coughing.

5 - FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area.

Flammability Conditions Non-combustible. Material does not burn.

Extinguishing Media Use an extinguishing agent suitable for surrounding fire.

Fire and Explosion Hazard No information available.

Hazardous Products of

Combustion Fire or heat will produce irritating, toxic and/or corrosive gases. Thermal

decomposition products: Ammonia, Carbon dioxide, Carbon monoxide, Nitrogen

oxides, Phosphorus oxides.

Special Fire Fighting

Instructions Runoff from fire control or dilution water may be toxic and/or corrosive and

pollute waterways.

Personal Protective

Equipment Fire-fighters should wear appropriate protective equipment and self-contained

breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode.

Flash Point No Data Available

Lower Explosion Point No Data Available



Upper Explosion Point No Data Available

Auto Ignition Temperature No Data Available

Hazchem Code 2X

6 - ACCIDENTAL RELEASES MEASURES

General Response

Procedure Ventilate enclosed spaces before entering. Do not touch or walk through spilled

material. Avoid breathing dust.

Clean Up Procedures 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.

Containment Stop leak if safe to do so. Prevent entry into waterways, drains or confined areas.

Decontamination No information available.

Environmental

Precautionary Measures Avoid dispersal of spilt material and runoff, and contact with soil, waterways,

drains and sewers.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel

away.

Personal Precautionary

Measures Put on appropriate personal protective equipment (see section 8).

7 – HANDLING AND STORAGE

Handling 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.

Storage 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/m3

-General population, Local effects: Inhalation (repeated dose): 0.73 mg/m3

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 Solid

Appearance Crystalline powder

Odour Odourless

Colour White

pH 1.6-2.5 (1% aqueous sol.)

Vapour Pressure No Data Available

Relative Vapour Density No Data Available

Boiling Point >200°c (at 1013hPa)

Melting Point >200°c (at 1013hPa)

Freezing Point No Data Available

Solubility Soluble



Specific Gravity No Data Available

Flash Point No Data Available

Auto Ignition Temp No Data Available

Evaporation Rate No Data Available

Bulk Density No Data Available

Corrosion Rate No Data Available

Decomposition Temp No Data Available

Density 1.77 g/cm3

Specific Heat No Data Available

Molecular Weight No Data Available

Net Propellant Weight No Data Available

Octanol Water Coefficient No Data Available

Particle Size No Data Available

Partition Coefficient No Data Available

Saturated Vapour Conc No Data Available

Vapour Temp No Data Available

Viscosity No Data Available

Volatile Percent No Data Available

VOC Volume No Data Available

Additional Characteristics No Data Available

Potential Dust Explosion No information available.

Fast or Intensely Burning

Characteristics No information available.

Flame Propagation or Burning Rate of Solid

Materials No information available.

Non-Flammables That Could Contribute Unusual

Hazards to a Fire No information available.

Properties that May Initiate or Contribute to

Fire Intensity Non-combustible. Material does not burn.

Reactions That Release

Gases or Vapours Fire or heat will produce irritating, toxic and/or corrosive gases.



Release of Invisible Flammable Vapours and

Gases No information available.

10 - STABILITY AND REACTIVITY

General Information No information available.

Chemical Stability The product is stable under normal handling and storage conditions.

Conditions to Avoid Avoid high temperatures.

Materials to Avoid Avoid oxidising materials, reducing materials and alkalis.

Hazardous Decomposition

Products Thermal decomposition products: Ammonia, Carbon dioxide, Carbon monoxide,

Nitrogen oxides, Phosphorus oxides.

Dissociates into Urea and Phosphoric acid (corrosive) in aqueous media.

Hazardous Polymerisation Will not occur.

11 - TOXICOLOGICAL INFORMATION

General Information Irritant and corrosive effects:

-Inhalation: Causes burns to the respiratory tract. Symptoms may include irritation

to the noses, throat and upper respiratory tract.

-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.

-Skin contact: Causes burns to skin. May cause redness, pain, blisters and severe

skin burns.

-Eye contact: Causes burns to eyes. Symptoms may include redness, pain, blurred

vision, eye burns and permanent eye damage.

Chronic effects:

-Carcinogenicity: Not listed as a carcinogen or potential carcinogen.

-Mutagenicity: Negative in Ames tests.

-Reproductive toxicity: Unlikely to cause adverse effects on reproduction.

Acute Ingestion Acute Oral Toxicity:

-Rat L50: 2,600 mg/kg bw (OECD Guideline 423)

Carcinogen Category None

12 - ECOLOGICAL INFORMATION

Ecotoxicity 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.

Persistence/Degradability 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.

Mobility Urea and Phosphoric acid have low potential for adsorption.

Environmental Fate Urea phosphate completely dissociates in water forming Urea and Phosphoric acid.

Potentially local effects to aquatic organisms due to pH lowering of water.

Bioaccumulation

Potential Urea and phosphoric acid have a low potential for bioaccumulation based on

physiochemical properties.

Environmental Impact No Data Available

13 - DISPOSAL CONSIDERATIONS

General Information 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.

Special Precautions for

Land Fill No information available.

14 - TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name CORROSIVE SOLID, N.O.S. (Urea Phosphate)

Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available

EPG 37 Toxic And/Or Corrosive Substance, Non-Combustible

UN Number 1759 Hazchem 2X Pack Group 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

Europe (REACh) Registered

Japan (ENCS/METI) Not Listed

Korea (KECI) Not Listed

Malaysia (EHS Register) Not Listed

New Zealand (NZIoC) Listed



Philippines (PICCS) Not Listed

Switzerland (GiftIste 1) Not Determined

Switzerland (Inventory of

Notified Substances) Not Determined

Taiwan (NCSR) Listed

USA (TSCA) Listed

16 – OTHER INFORMATION

Related Product Codes No Data Available

Revision 3.0

Revision Date 10 Feb 2023