Safety Data Sheet
Schultz Orchids Liquid Plant Food 15-5-5

1. Identification

Product identifier	Schultz Orchids Liquid Plant Food 15-5-5
Product code	1800650
Other means of identification	N.Av.
Recommended use of the chemical and restrictions on use	Liquid Plant Food.
Manufacturer	Premier Tech Home & Garden Inc 1, avenue Premier Rivière-du-Loup (Quebec) G5R 6C1 CANADA Tel. (418) 863-7878 www.pthomeandgarden.com
Emergency phone number	1-800-268-2806

2. Hazard identification

Summary	Avoid contact with skin, eyes and clothing. Do not breathe vapors and aerosols. Do not ingest. If medical advice is needed, have this SDS or label at hand. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.

WHMIS 2015/GHS/OSHA HCS 2012

Not Regulated under WHMIS 2015

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.

3. Composition/information on ingredients

Common name	CAS	Weight % content
Urea	57-13-6	10 - 30 %
Ammonium polyphosphate	68333-79-9	10 - 30 %
Potassium tripolyphosphate	13845-36-8	10 - 30 %
Tetrasodium EDTA	64-02-8	1 - 5 %
Sodium Ferric EDTA	15708-41-5	0.5 - 1.5 %
Zincate disodium EDTA	14025-21-9	0.1 - 1 %
Manganate disodium EDTA	15375-84-5	0.1 - 1 %

Note: The manufacturer withholds the actual concentration range of the ingredients as a trade secret.

4. First-aid measures

Inhalation	Move person to fresh air. If a problem develops or persists, seek medical attention.
Skin contact	Wash skin with warm water and mild soap. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.
Eye contact	Flush with water for at least 15 minutes. Remove contact lenses if easy to do. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.
Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with water and give 1-2 glasses of water to drink. Never give anything by mouth if victim is unconscious or convulsing. If a problem develops or persists, seek medical attention or contact a Poison Centre.
Other	No additional information.
Symptoms	Direct contact with eyes may cause temporary irritation.
Notes to the physician	Apply a symptomatic and supportive treatment.

5. Fire-fighting measures

Suitable extinguishing media	Use an extinguishing agent appropriate for the surrounding fire.
Specific hazards arising from the chemical	No hazard listed.
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask.
Special protective actions for fire-fighters	Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
Environmental precautions	Prevent entry into sewers, closed areas and release to the environment. Product will promote algae growth which may degrade water quality and taste. Notify downstream water users. For a large spill, consult the Department of Environment or the relevant authorities.
Methods and materials for containment and cleaning up	No action shall be taken involving any personal risk or without suitable training. Ventilate the area well. Stop leak if no risk. Contain spilled material. Absorb with inert material (soil, sand, vermiculite) or wipe up with a damp mop and place in an appropriate waste disposal clearly identified. For large liquid spills (> 1 drum), recover by mechanical means such as pumps and skimmers and store the product in a closed container in the dangerous waste shed. Dispose via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling	Use in well ventilated area. Avoid contact with skin, eyes and clothing. Do not breathe vapors and aerosols. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. After use, wash hands with soap and water.
Conditions for safe storage, including any incompatibilities	Store tightly closed and in properly labelled containers in a cool, dry and well ventilated place. Store away from incompatible materials (see section 10). Keep away from food and water. Keep away from direct sunlight and heat. Keep away from freezing.
Storage temperature	10 to 35°C (50 to 95°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	No IDLH value is reported.

Urea	TWA (8h)		10 mg/m^3	US AIHA
Potassium tripolyphosphate	TWA (8h)	Respirable Dust	3 mg/m^3	ACGIH
		Respirable Dust	5 mg/m^3	OSHA

Appropriate engineering controls	Provide sufficient mechanical ventilation (general and/or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits.
Individual protection measures	
Eye	Safety eyewear should always be used when there is a likelihood of exposure. In the workplace, wear safety glasses with side shields. If there is a risk of contact with eyes, wear chemical splash goggles.
Hands	Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Gloves must only be worn on clean hands.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. If necessary, wear an apron or long-sleeve protective coverall suit.
Respiratory	Respiratory protection is not required for normal use. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA.
Feet	Wear rubber boots to clean up a spill.

Monocoque glasses

Nitrile gloves

9. Physical and chemical properties

Physical state	Liquid	**Flammability**	Non-flammable
Colour	Clear blue	**Flammability limits**	N/Av.
Odour	Slight ammonia	**Flash point**	N/Av.
Odour threshold	N/Av.	**Auto-ignition temperature**	N/Av.
pH	6.5 to 7	**Sensibility to electrostatic charges**	No
Melting point	N/Av.	**Sensibility to sparks and/or friction**	No
Freezing point	N/Av.	**Vapour density**	N/Av. (Air = 1)
Boiling point	N/Av.	**Relative density**	1.21 kg/L (Water = 1)
Solubility	Soluble in water.	**Partition coefficient n-octanol/water**	N/Av.

Evaporation rate	N/Av.	**Decomposition temperature**	N/Av.
Vapour pressure	N/Av.	**Viscosity**	N/Av.
Percent Wt. Volatile	N/Av.	**Molecular mass**	N/Ap.
VOC (g/L)	0 g/L	**% Volume Volatile (VOC)**	0%
VOC (lb/gal)	0 lb/gal	**% Wt. Volatile (VOC)**	0%
N/Av.: Not Available N/Ap.: Not Applicable Und.: Undetermined N/E: Not Established			

10. Stability and reactivity

Reactivity	No reactivity expected.
Chemical stability	Stable under normal conditions of use.
Possibility of hazardous reactions (including polymerizations)	A dangerous reaction will not occur.
Conditions to avoid	Avoid contact with incompatible materials.
Incompatible materials	Reducing agents, strong oxidants.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Numerical measures of toxicity

Ammonium polyphosphate	Ingestion	<2000 mg/kg	Rat	LD50
		>300 mg/kg	Rat	LD50
	Inhalation	>5.09 mg/l/4h	Rat	LC50
Potassium tripolyphosphate	Ingestion	>2000 mg/kg	Rat	LD50
	Inhalation	>0.39 mg/l/4h	Rat	LC50
	Skin	>4640 mg/kg	Rat	LD50
Urea	Ingestion	8471 mg/kg	Rat	LD50
	Skin	>21000 mg/kg	Rabbit	LD50
Tetrasodium EDTA	Ingestion	1700 mg/kg	Rat	LD50
	Inhalation	>5 mg/l/4h	Rat	LC50
	Skin	>2000 mg/kg	Rabbit	LD50
Sodium Ferric EDTA	Ingestion	>2000 mg/kg	Rat	LD50
	Inhalation	>2.75 mg/l/4h	Rat	LC50
	Skin	>2000 mg/kg	Rat	LD50
Manganate disodium EDTA	Ingestion	>2000 mg/kg	Rat	LD50
	Inhalation	>5.16 mg/l/4h	Rat	LC50
	Skin	>2000 mg/kg	Rat	LD50
Zincate disodium EDTA	Ingestion	>2000 mg/kg	Rat	LD50
	Inhalation	>5 mg/l/4h	Rat	LC50
	Skin	>2000 mg/kg	Rat	LD50

Likely routes of exposure: Skin, eyes, inhalation.

Delayed, immediate and chronic effects

Eye contact	Direct contact with eyes may cause temporary irritation.
Skin contact	Prolonged and repeated contact may cause redness and slight irritation of the skin.
Inhalation	Exposure to high concentrations of vapour may cause coughing, sneezing, nose, throat and respiratory tract irritation.
Ingestion	Low degree of acute toxicity. Swallowing a large amount of this product may cause diuretic effect.

	Respiratory or skin sensitization	Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.
	IARC/NTP Classification	No ingredients listed.
	Carcinogenicity	Ingredients present at levels greater than or equal to 0.1% of this product are not listed as a carcinogen by IARC, ACGIH, NIOSH, NTP or OSHA.
	Mutagenicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.
	Reproductive toxicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.
	Specific target organ toxicity - single exposure	No target organ is listed.
	Specific target organ toxicity - repeated exposure	No target organ is listed.
Interactive effects	No information available.	
Other information	The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimate (ATE) by inhalation (dust/mist) of the mixture was calculated to be greater than 5 mg/L/4h.	

12. Ecological information

Ecological toxicity	Aquatic Invertebrate - Daphnia Magna (static)	EC50	3910 mg/L; 48h (Urea, CAS no 57-13-6)
	Fish - Guppy - Poecilia reticulata (static)	LC50	17500 mg/L; 96h (Urea, CAS no 57-13-6)
	Fish - Danio rerio	LC50	1850 mg/L; pH 8; 24h (CAS no 13845-36-8)
	Aquatic Invertebrate - Daphnia magna	EC50	>100 mg/L ; pH 8.0-8.3 ; 48h (CAS no 13845-36-8)
	Fish - Oncorhynchus mykiss - Rainbow trout	LC50	>100 mg/L; 96 h (CAS no 68333-79-9) OECD 203
	Aquatic Invertebrate - Crustaceans, Daphnia Magna	EC50	>100 mg/L; 48 h (CAS no 68333-79-9)
	Fish various	LC50	>100 mg/L; 96h (CAS no 64-02-8)
	Aquatic Invertebrate - Daphnia magna	EC50	>100 mg/L; 48h (CAS no 64-02-8)
Persistence	Inorganic compounds persist in the environment indefinitely or incorporate into biological systems.		
Degradability	The term biodegradability, as such, is not applicable to inorganic compounds. The product is a mixture whose ingredients are readily biodegradable (> 60% in 28 days).		
Bioaccumulative potential	The inorganic products of this kind are not expected to accumulate in living organisms, but they are expected to accumulate in plants.		
Mobility in soil	Urea is soluble in water, it is not expected to partition to the soil. Under alkaline soil conditions, soluble phosphates are translocated in the soil only over very short periods and are then immobilized under calcium or magnesium salts. Under acidic soil conditions, sparsely soluble phosphates tend to solubilize and may migrate to water.		
Other adverse effects	Product will promote algae growth which may degrade water quality and taste. Will release ammonium ions. As pH increases, more alkaline soil, the fraction of the ammonia gas increases. Ammonia is a toxic hazard to fish. This chemical does not deplete the ozone layer.		

13. Disposal considerations

Container 	Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. Empty containers can be treated (recycled) where there is a recovery program. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

14. Transport information

UN Number	UN N/A
UN Proper Shipping Name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
Environmental hazards	This material does not contain marine pollutant.
Special precautions for user	No information available.
TDG - Transportation of Dangerous Goods (Canada & US DOT)	
Transport hazard class(es)	Not regulated
Packing group	Not regulated
2020 Emergency Response Guidebook	
IMO/IMDG - International Maritime Transport	
Classification	Not regulated
IATA - International Air Transport Association	
Classification	Not regulated

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

15. Regulatory information

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Urea	57-13-6		X		
Ammonium polyphosphate	68333-79-9		X		X
Potassium tripolyphosphate	13845-36-8		X		
Tetrasodium EDTA	64-02-8		X		
Sodium Ferric EDTA	15708-41-5		X		
Zincate disodium EDTA	14025-21-9		X		
Manganate disodium EDTA	15375-84-5		X		

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

UNITED STATE OF AMERICA

Common name	CAS	TSCA	CERCLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Prio.
Urea	57-13-6	X								
Ammonium polyphosphate	68333-79-9	X								
Potassium tripolyphosphate	13845-36-8	X								
Tetrasodium EDTA	64-02-8	X								
Sodium Ferric EDTA	15708-41-5	X								
Zincate disodium EDTA	14025-21-9	X								
Manganate disodium EDTA	15375-84-5	X								

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

California Proposition 65

No ingredients listed.

Other regulations	CANADA : - Canadian National Pollutant Release Inventory Substances (NPRI): This material is listed in Ammonia (total). Ammonium polyphosphate (CAS no. 14728-39-3).

HMIS

NFPA

16. Other information

Date (YYYY-MM-DD)	Premier Tech Home & Garden Inc 2021-06-14
Version	01
Other information	REFERENCES: - The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, https://pubchem.ncbi.nlm.nih.gov - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, https://haz-

	map.com/ - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), https://www.cnesst.gouv.qc.ca/fr ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association OSHA: Occupational Safety and Health Administration (USA) NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program RSST: Règlement sur la santé et la sécurité du travail (Québec) GHS: Globally Harmonized System IARC: International Agency for Research on Cancer IDLH: Immediately Dangerous to Life or Health STEL: Short Term Exposure Limit (15 min) TWA: Time Weighted Averages WHMIS: Workplace Hazardous Materials Information System
Powered by A global vision of prevention	To the best of our knowledge, the information contained herein is accurate. However, neither Preventis System, nor the above named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.