

## SAFETY DATA SHEET



## ToNik

## Hybrid-Ag Pty Ltd

Catalogue number: N/A

Version No: 0.1

Issue date: 19/03/2021

Safety Data Sheet according to WHS and ADG requirements

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

## Product Identifier

Product name	ToNik
Synonyms	N/A
Other means of identification	Urea Liquid Fertiliser

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Fertiliser, soil stimulation
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## Details of the manufacturer/importer

Registered company name	Hybrid-Ag Pty Ltd
Address	52 Buckler Road, Wangaratta, VIC 3677
Telephone	(03) 5722 7555
Mobile	
Website	<a href="http://www.hybridag.com.au">www.hybridag.com.au</a>
Email	<a href="mailto:admin@hybridag.com.au">admin@hybridag.com.au</a>

## Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

## SECTION 2 HAZARDS IDENTIFICATION

## Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
GHS Classification <sup>[1]</sup>	Not Applicable

## Label elements

GHS label elements	Not applicable
SIGNAL WORD	<b>NOT APPLICABLE</b>

## Hazard statement(s)

Not Applicable

## Precautionary statement(s) Prevention

P102	Keep out of reach of children
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## Precautionary statement(s) Response

If in eye, flush gently with running water for 15 minutes. If inhaled, remove from exposure area. If irritation persists, seek medical attention. If skin or hair contact occurs, remove contaminated clothing and flush affected areas with running water. If irritation persists, seek medical attention.

## Precautionary statement(s) Storage

Use only in well ventilated areas. Store away from other chemicals. Keep containers closed when not in use.

## Precautionary statement(s) Disposal

P501	Dispose of contents and containers in accordance with local regulations
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**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

All ingredients are non-hazardous

**Mixtures**

CAS No	% (weight)	Name
7732-18-5	63	Filtered Water
57-13-6	50	Urea
479-66-3	0.5	Fulvic Acid

**SECTION 4 FIRST AID MEASURES****Description of first aid measures**

<b>Eye Contact</b>	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
<b>Skin Contact</b>	If skin contact occurs with concentrate: Flush skin and hair with running water. Seek medical advice in event of irritation.
<b>Inhalation</b>	Not applicable
<b>Ingestion</b>	Do NOT induce vomiting. No treatment necessary unless large quantities are swallowed. If symptoms persist, obtain medical advice.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES****Extinguishing media**

	There is no restriction on the type of extinguisher which may be used. Though the material is non-combustive, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider: <ul style="list-style-type: none"><li>• Foam</li><li>• Dry chemical powder</li><li>• Carbon dioxide</li></ul>
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**Special hazards arising from the substrate or mixture**

<b>Fire incompatibility</b>	When heated, releases ammonia. When heated to decomposition, releases toxic fumes of nitrogen oxides, ammonia, cyanuric acid.
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**Advice for firefighters**

<b>Fire Fighting</b>	Alert Fire Brigade and tell them location and nature of hazard. Fire fighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing. Use firefighting procedures suitable for the surrounding environment. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
<b>Fire/Explosion Hazard</b>	When heated to decomposition, releases toxic fumes of nitrogen oxides, ammonia, cyanuric acid.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

<b>Minor Spills</b>	Sweep up & dispose of.
<b>Major Spills</b>	Sweep into a centralised location and place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle. Prevent by any means available any spillage entering sewers, water courses, basements or confined areas.
	Personal protective equipment advice is contained in Section 8 of this SDS

**SECTION 7 HANDLING AND STORAGE****Precautions for safe handling**

<b>Safe handling</b>	Wear suitable protective clothing depending on the circumstances as per section 8. Do not mix with other chemicals unless expressly recommended by the manufacturer. Always store in original container.
<b>Other information</b>	

**Conditions for safe storage, including any incompatibilities**

<b>Suitable container</b>	1L drum, 5L drum, 20L drum, 200L drums, 1000L IBC's, bulk storage containers or tanks
<b>Storage incompatibilities</b>	Avoid: <ul style="list-style-type: none"><li>• Storage/mixing with oxidizing agents.</li><li>• Carbon steels, zinc coated carbon steels, mild iron.</li><li>• Non-ferrous metals &amp; alloys: copper, copper alloys, zinc, lead.</li><li>• Solders containing lead, silver zinc, copper.</li><li>• Aluminium, aluminium alloys.</li></ul>

- Magnesium, magnesium alloys.
- Plastics or metals coated with nickel.


**PACKAGE MATERIAL INCOMPATIBILITIES**

Not Available

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****OCCUPATIONAL EXPOSURE LIMITS (OEL)****INGREDIENT DATA**

Not Available

**Exposure controls**

<b>Appropriate engineering controls</b>	Ensure adequate ventilation
<b>Personal protection</b>	 Wear overalls or PVC apron
<b>Eye and face protection</b>	Wear gloves, dust mask, safety glasses with side shield, long sleeves, long pants & steel cap boots
<b>Hands/feet protection</b>	Wear gloves, dust mask, long sleeves, long pants & steel cap boots

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Appearance</b>	Dark brown to black liquid		
<b>Physical state</b>	Liquid	<b>Specific Gravity (Water = 1)</b>	1.137
<b>Odour</b>	Low to slight ammoniacal odour	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Applicable
<b>pH (as supplied)</b>	6-9	<b>Decomposition temperature</b>	100°C
<b>Melting point / freezing point (°C)</b>	Not Applicable	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	100	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not Applicable	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Applicable	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Applicable	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Available
<b>Lower Explosive Limit (%)</b>	Not Applicable	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Fully Miscible	<b>pH as a solution</b>	6-9
<b>Vapour density (Air = 1)</b>	Not Available	<b>VOC g/L</b>	Not Available

**SECTION 10 STABILITY AND REACTIVITY**

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	Unstable in the presence of incompatible materials.
<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 7

**SECTION 11 TOXICOLOGICAL INFORMATION****Information on toxicological effects**

<b>Inhaled</b>	Mists and spray from the product may cause irritation to the nose, throat and respiratory system with effects including; coughing and discomfort.
<b>Ingestion</b>	May cause irritation to the mouth, throat and stomach. Urea may cause irritation to the digestive tract, nausea, vomiting, diarrhea, salt depletion, headache, confusion.
<b>Skin Contact</b>	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

<b>Eye</b>	May cause irritation, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
<b>Chronic</b>	Extended period of contact may cause irritation in sensitive individuals.

**SECTION 12 ECOLOGICAL INFORMATION****Toxicity  
Toxicity**

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
urea	LC50	96	Fish	5mg/L	4
urea	EC50	48	Crustacea	3910mg/L	4
urea	EC50	96	Algae or other aquatic plants	42184.758mg/L	3
urea	BCF	24	Algae or other aquatic plants	0.05mg/L	4
urea	EC50	384	Crustacea	894.861mg/L	3
urea	NOEC	96	Crustacea	1000mg/L	4

**Legend:**

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

## Ingredient Toxicity:

Urea Oral (rat) LD50: 8471 mg/kg [2]  
Water Oral (rat) LD50: >90000 mg/kg [2]

2.\* Value obtained from manufacturer's SDS

**Persistence and degradability**

Ingredient	Persistence: Water/Soil	Persistence: Air
Urea	Low	Low
Water	Low	Low

**Bio accumulative potential**

Ingredient	Bioaccumulation
Urea	LOW (BCF = 10)
Water	LOW (LogKOW = -1.38)

**Mobility in soil**

Ingredient	Mobility
Urea	LOW (KOC = 4.191)
Water	LOW (KOC = 14.3)

**SECTION 13 DISPOSAL CONSIDERATIONS****Waste treatment methods**

<b>Product / packaging disposal</b>	Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
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**SECTION 14 TRANSPORT INFORMATION****Labels Required**

<b>Marine Pollutant</b>	No
<b>HAZCHEM</b>	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**SECTION 15 REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance or mixture**

Non-Hazardous Chemical, Non-Dangerous Goods.  
According to the WHS Regulations and the ADG Code  
UREA(57-13-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS  
Australia Inventory of Chemical Substances (AICS)  
WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS  
Australia Inventory of Chemical Substances (AICS)

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## SECTION 16 OTHER INFORMATION

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### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### Definitions and abbreviations

PC-TWA:	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Government Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediate Danger to Life or Health Concentrations
OSF:	Odour Safety Factor
NOAEL:	No Observed Effects Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEI:	Biological Exposure Index

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**End of SDS**