

Material Safety Data Sheet: ITS Humic Release

1. IDENTIFICATION

Product Name:	ITS Humic Release
Other Names:	None Allocated
UN No.:	None Allocated
Dangerous Goods Class:	N/A
Subsidiary Risk:	None Allocated
Hazchem Code:	N/A
Pack Group:	N/A
EPG:	N/A
Poisons Schedule:	
MSD DATE	1/1/2017

2. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown, coloured liquid with slight woody odour.
Product Description:	ITS Humic Release is a soil conditioner effecting numerous soil fertility parameters such as; increased water holding capacity, increased aggregate stability and macroporosity; more retention of Ca; Mg, K and macronutrients (fertilizer elements); increased water availability to plants, reduced phosphorous fixation.

Boiling Point:	100°C (approx...)	Specific Gravity:	1.152 gcm ⁻¹
Melting Point:	N/A	Sublimation Point:	N/A
Decomposition Point:	N/A	Flash Point:	N/A
Vapour Pressure:	20 mm Hg @ 20°C	Flammability limits:	N/A
Viscosity:	N/A	Auto ignition Temp:	NAV
pH:	5.2	Upper Explosion Limit:	NAV
Percentage Solids:	49.86	Solubility in water:	SOLUBLE

CHEMICAL COMPOSITION

Ingredient:	CAS No	Content
<i>(expressed as elemental concentration)</i>		
1) Nitrogen Slow Release (N)	572-13-6	< 5.0 % w/v
2) Potassium Lignosulphonate (K)	37314-65-1	< 10.0 % w/v
3) Magnesium Lignosulphonate (Mg)	8061-54-9	< 5.0 % w/v
4) Iron (EDHA) (Fe)	3931-38-9	< 5.0 % w/v
5) Manganese Hydrolysate (Mn)	68186-83-4	< 1.0 % w/v
6) Zinc Hydrolysate	57866-49-6	< 1.0 % w/v
7) Copper Lignosulphonate (Cu)	6127-83-6	< 1.0 % w/v
8) Potassium Molybdate (Mo)	10102-40-6	< 0.5 % w/v
9) Boron Gluconate (B)	10043-35-3	< 1.0 % w/v
10) Modified Humates, Fulvates	NAV	< 30.0 % w/v

Stable liquid with no known hazardous decomposition
Non Hazardous according to the criteria of Worksafe Australia

NAV = Not Available N/A = Not Applicable

Independent Turf Services Pty Ltd

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3. HAZARDS IDENTIFICATION

3.1 HEALTH HAZARD INFORMATION

Hazards Identification:

Ingestion	Ingestion of this product may irritate the gastric tract. May cause diarrhea, nausea, vomiting and cramps if ingested.
Eye	This material maybe irritating to eyes. Eye protection necessary during application.
Skin	Prolonged contact may cause irritation or allergic dermatitis.
Inhaled	May cause irritation to respiratory system if mists or sprays inhaled.

3.2 HEALTH EFFECTS – CHRONIC

No Information available.

No known significant health effects.

3.3 FIRST AID

Ingested	Do not induce vomiting. Wash mouth and lips with copious amounts of water and give limited amounts of water and milk. Do not give anything by mouth to an unconscious person. Seek medical attention.
Eye	Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is sensible to seek medical advice.
Skin	Immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
Inhalation	Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult, have qualified person give oxygen through a face mask. Seek medical advice if effects persist.
First Aid Facilities	Ensure eye bath and safety shower available and ready for use.
Advice to Doctor	Treat symptomatically and supportively.

3.4 TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low toxicity - low irritant. This product may only present a hazard with direct eye contact or with prolonged and repeated skin contact. No chronic effects are anticipated with normal use.
Eye	Low irritant. Contact may result in irritation and lacrimation.
Inhalation	Low irritant. Over exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.
Skin	Low irritant. Prolonged or repeated contact may result in mild irritation, rash and dermatitis.
Ingestion	Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.
Toxicity Data	No LD50 data available for this product.

3.5 ECOLOGICAL INFORMATION

Environment Plant nutrients may be beneficial to plants at low levels, however high levels may cause reduced growth or burns in sensitive species. Excess may be washed through soil to waterways. Nutrients released to waterways may cause algal blooms, with potential for toxic effects on aquatic organisms.

4. PRECAUTIONS FOR USE

4.1 EXPOSURE STANDARDS

Not established.

4.2 ENGINEERING MEASURES

Avoid generating and inhaling fumes. Provide natural or mechanical ventilation to minimize exposure. Keep containers closed when not in use.

4.3 PERSONAL PROTECTION

Hand Protection Wear rubber gloves

Eye Protection Wear chemical safety goggles unless a full face respirator is worn.

Skin Protection Wear protective clothing with rubber boots.

4.4 FLAMMABILITY

Not flammable under conditions for use.

5. SAFE HANDLING INFORMATION

5.1 STORAGE/TRANSPORT

Keep containers closed at all times. Check regularly for spills. Avoid extreme temperatures. Handle in accordance with good industrial safety practices. Store separate from acids, reactive metals and ammonium salts. Do not store in aluminium, fiberglass, copper, brass, zinc or galvanised containers. Avoid storage and contact with strong acids.

5.2 SPILLS AND DISPOSAL

Spills Clean-up Personnel should wear full protective clothing including breathing equipment if fumes prevail. Cover with damp absorbent inert material (sand or soil). Collect and seal in properly labelled drums for disposal. Avoid contaminating waterways.

Disposal Observe all federal, state and local environment regulations. Refer to Department of Environment for guidelines.

5.3 FIRE & EXPLOSION HAZARD

Fire/Explosion Not considered to be a significant fire risk.

Extinguishing Media Water jets or water spray.

5.4 REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

6. OTHER INFORMATION

6.1 CONTACT POINTS

Organisation	Location	Telephone	Ask for
Independent Turf Services Pty Ltd	Tullamarine, Victoria	+61 (03) 9333 2155	General Manager
Poisons Information Centre		13 11 26	

Additional Information

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

This document has been compiled by the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While Independent Turf Services Pty Ltd has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Independent Turf Services Pty Ltd accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

7. COMPANY INFORMATION

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**MSD DATE 1/1/2017
END OF MSDS**