1. IDENTIFICATION

Revision Date 18/06/2024

Product name Hydro TL

Uses Agricultural wetter and Penetrant.

Contact Information

Organisation : Metagen Pty Ltd

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Gatton, QLD 4343

Australia

Emergency Phone No.: 0448 082 841 / 0447 446 816

2. HAZARD IDENTIFICATION

Hazardous according to criteria of NOHSC/ASCC.

HARMFUL

Risk Phrases R22 Harmful if swallowed.

R41 Risk of serious eye damage.

Safety Phrases S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 Wear suitable gloves and eye/face protection.

ERMA New Zealand Approval Code HSR002503

HSNO Hazard Classification 6.1D 6.3B 8.3A 9.1D

This Material Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The ERMA Web Site should be consulted for a full list of triggered controls and cited regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients: Ethoxylated Alcohol 60 – 70%

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

Swallowed	If swallowed, do NOT induce vomiting. Transport to nearest medical facility for treatment. If vomiting occurs naturally, keep head below hips to prevent aspiration.
Eye	Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. Transport to the nearest medical facility for treatment.
Skin	Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation persists, transport to the nearest medical facility for treatment.
Inhaled	Remove victim from exposure to fresh air. If rapid recovery does not occur, seek medical attention.
Advice to Doctor	Treat symptomatically based on individual reactions of patient and judgement of doctor.
Aggravated medical conditions caused by exposure	Persons with pre-existing eye conditions/disorders may be more susceptible to the effects from this product. Risk of serious damage to eyes.

5. FIRE FIGHTING MEASURES

Extinguishing Media	In case of fire, appropriate extinguishing media include alcohol-resistant foam, water spray or fog, dry chemical powder, carbon dioxide, sand and earth. Do NOT use water in a jet. Use water spray to cool down fire exposed containers.
Hazards from Combustion Products	Combustible Liquid. Stable up to 50'C in temperature. Oxidizes on contact with air. Incompatible with oxidizing agents, acids, copper, copper alloys, aluminium, flammables, corrosives, aluminium and sources of ignition. Carbon monoxide may be evolved if incomplete combustion occurs.
Special Protective Precautions and Equipment for Fire Fighters	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all nonemergency personnel. Stay upwind. Keep out of low areas where gases or fumes can accumulate. Eliminate ignition sources.
Flammability Conditions	Product is a combustible liquid.
Hazchem Code	N/A

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Personnel involved in the cleanup should wear full protective clothing. Eliminate all sources of ignition. Stop leak if safe to do so. Increase ventilation. Avoid walking through spilled product as it may be slippery. Do NOT let product reach drains or waterways. If the product does enter a waterway advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

Methods and Materials for Containment and Clean Up

Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material and transfer to a suitable, labelled, dry, sealable chemical-waste container and dispose of promptly. For large spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with absorbent material and hold for safe disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours.

Conditions for Safe Storage (Including Any Incompatibles)

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including oxidizing agents, acids, copper, copper alloys, aluminium, combustible materials and sources of ignition. Protect from direct sunlight, moisture and static discharges. Store below 50'C in temperature. Nitrogen blanket recommended for large tanks (capacity >100m3). Bulk storage tanks should be diked (bunded). This product is classified as a "C2" Combustible Liquid for the purpose of storage and handling, in accordance with the requirements of AS1940.

Container Type

Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001. Store in original packaging as approved by manufacturer.
Suitable: Stainless steel, epoxy resins, polyester.
Unsuitable: Aluminium, copper, copper alloys.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards

No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC).

Biological Limit Values

No information available on biological limit values for this product.

Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the
contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection

RESPIRATOR: Wear an approved respirator suitable for particulate and organic vapours if engineering controls are inadequate (AS1715/1716). EYES: Chemical splash goggles and face shield (AS1336/1337). HANDS: Wear nitrile

rubber gloves (AS2161). CLOTHING: Chemical-resistant coveralls and safety footwear (AS3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear slightly viscous liquid
Formula	unspecified
Odour	mild odour
Vapour Pressure	<0.1hPa (37.8'C) mm Hg (1 atmosphere)
Vapour Density	18.0
Boiling Point	>232.2 deg C
Melting Point	not applicable
Solubility in Water	Soluble
Specific Gravity Flash Point	Closed cup 160
pH	6
Lower Explosion Limit	not applicable
Upper Explosion Limit	not applicable
Ignition Temperature	not applicable
Specific Heat Value	not applicable
Particle Size	not applicable
Volatile Organic	not applicable
Compounds (VOC) Content	not applicable
Evaporation Rate	not applicable
Viscosity	27mm2/s (40C)
Percent Volatile	not applicable
Octanol/Water partition coefficient	**3**
Saturated Vapour Concentration	not applicable
Additional Characteristics	
Propagation/Burning Rate of Solid Materials	Not applicable.
Flame Properties of Materials That May Initiate or Contribute to Fire Intensity	not applicable
Potential for Dust	Product is a liquid
Explosion Reactions that	

Release Flammable gases not applicable

Fast of Intensely Burning Characteristics not applicable

10. STABILITY AND REACTIVITY

Chemical Stability Avoid excessive heat, direct sunlight, moisture, freezing, static charges and temperatures above 50'C.

Conditions to Avoid Incompatible with oxidizing agents, acids, copper, copper alloys, aluminium, flammables, corrosives, aluminium and sources of ignition.

Incompatible Materials Carbon monoxide may be evolved if incomplete combustion occurs.

Hazardous Decomposition Products

Hazardous Reactions

11. TOXICOLOGICAL INFORMATION

Toxicity Data Oral LD50 Rat : >300 - <=2000mg/Kg Dermal LD50 Rat: >2000 - <=5000mg/Kg Inhalation : Expected to be of low Toxicity if Inhaled. Repeated Dose : Low sytemic toxicity on repeated exposure. Mutagenicity : No evidence of mutagenic activity. Carcinogenicity: Not carcinogenic in animal studies. Reproductive : Does not impair fertility. Developmental : Not a developmental toxicant.

Health Effects - Acute

Swallowed Harmful if swallowed.

Eyes causes serious eye damage. May cause a burning sensation, redness, swelling and/or blurred vision.

Skin May be harmful in contact with skin. Causes mild skin irritation. Symptoms include a burning sensation, redness, swelling and blisters. Repeated exposure may cause dryness and cracking. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried cracked appearance.

Inhaled Slightly irritating to the respiratory system. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing and/or difficulty breathing

12. ECOLOGICAL INFORMATION

Ecotoxicity	**Potential**
	Toxic to aquatic organisms. Toxicity to Fish Harmful 10 < LC/EC/IC50 < =100mg/L Aquatic Invertebrates Toxic 1 < LC/EC/IC50 < = 10mg/L Toxicity to Algae Harmful 10 < LC/EC/IC50 < =100mg/L Micro-organisms Expected to have low toxicity LC/EC/IC50 > 100mg/L
Persistence and Degardability	Readily biodegradable meeting the 10 day window criterion.
Mobility	Dissolves in water. If product enters soil, it will be highly mobile and may contaminate groundwater.
Environmental Fate (Exposure)	Do not allow product to enter drains, waterways or sewers. Toxic to aquatic organisms.
Bioaccumulative	Bioaccumulation is unlikely to occur due to metabolism and excretion.

13. DISPOSAL CONSIDERATIONS

Disposal

Special Precautions for Land Fill or Incineration

Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State and Federal Regulations or recycled/reconditioned at an approved facility.

Contact a specialist disposal company or the local waste regulator for advice. Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

14. TRANSPORT INFORMATION

Land Transport (Australia)

Regulation Name	ADG
UN Number	Not applicable.
Shipping Name	Hydro TL
Dangerous Goods Class	C.2 Combustible
Subsidiary Risk	Liquid Not applicable.
Pack Group	Not applicable.
Precaution for User	HARMFUL
Hazchem Code	N/A
EPG	Not applicable.
Special Provision	Not applicable.

Air Transport

Regulation Name	
UN Number	IATA
Shipping Name	Hydro TL
Dangerous Goods Class Subsidiary Risk	Not Applicable
Pack Group	
Precaution for User Harmful	Harmful

Hazchem Code	No data available.
EPG	No data available.

Special Provision Not applicable

15. REGULATORY INFORMATION

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. National Inventories; Australia AICS - Listed Canada DSL - Listed USA TSCA - Listed Korea KECI - Listed Philippines PICCS - Listed Japan ENCS - Listed

Poisons Schedule	N/A
EPG	N/A
AICS Name	
NZ Toxic Substance	N
HSNO Hazard Classification	6.1D 6.3B 8.3A 9.1D
ERMA Approval Code	**H**SR002503

16. OTHER INFORMATION

This SDS summarises the health and safety hazard information of the product to the best of our knowledge and how to safely handle and use the product in the workplace. Users should read this SDS and always consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.
Information contained in this document or information as otherwise supplied to users is believed to be accurate, but it is for the users to satisfy themselves of the suitability of the product. Metagen Pty Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Metagen Pty Ltd accepts no liability for loss or damage resulting from reliance on this information.
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