



# MATERIAL SAFETY DATA SHEET

## HYDROLOCK ENCAPSULATOR AGENT

Date Prepared: 30 April 2014

Issued by: Hazard Control Technologies, Inc.

Not Classified as Hazardous

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Chemical Product** Not Applicable - Blend  
**Company** Hazard Control Technologies, Inc.  
**Product Name** HydroLock Encapsulator Agent  
**Company Name** Environmental Hazard Management Pty Ltd.  
**Address** 2349 Grenfell Road  
COWRA NSW 2794 Australia  
**Emergency Telephone #** + 61 438 886 359 / +61 412 904 097  
**Company Telephone #** +61 732 767 988  
**Email** gph@environhazman.com  
**Recommended Use** Hydrocarbon Tank Degassing and Cleaning

### 2. HAZARDS IDENTIFICATION

**Hazard Classification** Not classified as hazardous  
**Safety Phrase(s)** R36/38 - Irritant. Avoid contact with skin and eyes

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

The composition of this mixture is proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse.

NAME	CAS	PROPORTION
Nitritolriethanol aliphatic soap	Trade Secret	1-4.5%
Alkyl ether amine reaction with aliphatic acids	N/A Mixture/Preparation	25-55%
Linear aliphatic alcohols	N/A Mixture/Preparation	3-10%
Water	7732-18-5	35-55%

### 4. FIRST AID MEASURES

**Inhalation** Immediately remove the affected victim from exposure and administer fresh air. Apply artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

**Ingestion** Do NOT induce vomiting. If individual is conscious, give plenty of water or milk to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. Do NOT attempt to give anything by mouth to an unconscious person.

**Skin** Immediately flush with large amounts of water, use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. If irritation persists, seek medical attention.

**Eye** Immediately flush eyes with large amounts of water for at least 15 minutes. Seek prompt medical attention if irritation persists.



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### First Aid Facilities

Eyewash and normal washroom facilities

### Advice to Doctor

Product has a neutral pH. Working solutions when heated above 75°C can cause respiratory irritation such as typical of mild acids and should be treated as such. Skin or eye contact with product should be flushed with water to reduce irritation.

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## 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	Apply water to extinguish
<b>Hazards from Combustion Products</b>	Product is non-combustible
<b>Precautions in Connection with Fire</b>	Non-flammable liquid concentrate

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Product is a tank degassing and cleaning agent. Product is a non-flammable liquid; however, exposure to high heat for extended period of time could cause combustion. If combustion occurs, apply water to extinguish.

**NOTE:** No hazardous byproducts are known.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Land Spill</b>	Product is not a hazardous waste. Dispose of in accordance with government regulations. When product is used to mitigate a hazardous material, the resultant material must be handled in the same fashion as the hazardous material. Contain liquid with sand or earth. Do not use combustible materials such as sawdust. Recover liquids by pumping (use an explosion proof or hand pump if recovering flammable liquids) or with a suitable absorbent. Consult an expert on disposal of recovered material.
<b>Water Spill</b>	Dike or contain any spill. Avoid direct discharge into any body of water. Diluted product may be acceptable in municipal wastewater treatment plants.

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## 7. STORAGE AND HANDLING

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<b>Precautions for Safe Handling</b>	Keep containers closed until ready for use. Handle any open containers with care. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.
<b>Conditions for Safe Storage</b>	Store in cool, well ventilated area away from incompatible materials. Protect material from direct sunlight. This material is not a static accumulator, but use proper grounding procedures. Do NOT pressurize, cut, heat or weld containers.

**SHELF LIFE (unopened container):** 15 years unopened container.



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**STORAGE TEMPERATURE:** 1.5°C -54.5°C

**STORAGE/TRANSPORT PRESSURE:** Atmospheric

**LOADING/UNLOADING VISCOCITY:** 85 cP at 21°C

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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<b>National Exposure Standards</b>	Nil established
<b>Biological Limit Values</b>	Nil allocated
<b>Engineering Controls</b>	Provide sufficient ventilation with local exhaust ventilation system in an enclosed area.
<b>Respiratory Protection</b>	Typically respiratory protection is not required under normal conditions of use.
<b>Eye Protection</b>	Wear protective eyewear.
<b>Hand Protection</b>	Wear gloves.
<b>Body Protection</b>	Where contact is likely, wear long sleeves.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Amber liquid
<b>Odour</b>	Mild
<b>Melting Point</b>	-3°C
<b>Boiling Point</b>	118°C
<b>Solubility in Water</b>	Complete at 20°C
<b>Specific Gravity</b>	0.990 g/cc
<b>pH Value</b>	6.9 - 7.1 pH
<b>Vapour Pressure (Air=1)</b>	2,666 Pa @ 25°C
<b>Flash Point</b>	N/A
<b>Flammability</b>	Non-flammable liquid
<b>Auto-Ignition Temperature</b>	N/A
<b>Explosion Limits (lower/upper)</b>	Non-explosive

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### 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable
<b>Conditions to Avoid</b>	Avoid contact with strong oxidizing agents
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	None identified
<b>Hazardous Polymerization</b>	Will not occur



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### 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	EC <sub>50</sub> (microbial toxicity) – <i>Activated Sludge Microorganisms</i> – 3,000.00mg/L LC <sub>50</sub> (aquatic toxicity) – <i>Pimephales promelas</i> – 1.20 mg/L LD <sub>50</sub> (acute oral toxicity) – Rat ( <i>Rattus norvegicus</i> ) -> 5.00 gr/kg Non-Mutagenic (OECD Guidelines Section 471)
<b>Ingestion</b>	May cause gastro-intestinal irritation if ingested.
<b>Skin</b>	Frequent or prolonged contact may cause minor irritation and/or drying. OECD 401-Non skin sensitizing.
<b>Eye</b>	Can cause local irritation.

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### 12. ECOLOGICAL INFORMATION

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<b>Ecotoxicity</b>	HydroLock contains no reportable ingredients
<b>Persistence/Degradability</b>	100% Biodegradable
<b>Mobility</b>	High mobility
<b>Bioaccumulative Potential</b>	Nil
<b>Environmental Protection</b>	Prevent spilled material from entering sewers, waterways, or any body of water
<b>Acute Toxicity – Other Organisms</b>	Nil Known
<b>Biological Oxygen Demand (BOD<sub>5</sub>) (mg/L)</b>	12,000 at 3% solution
<b>Chemical Oxygen Demand (COD) (mg/L)</b>	58,000 at 3% solution
<b>Corrosivity</b>	8 micrometers/year (same as fresh water)

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### 13. DISPOSAL CONSIDERATIONS

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<b>Disposal Considerations</b>	Handle open containers with care. Empty product containers may contain residue. Triple rinse empty containers and add rinse water to working solution. Empty container is recyclable.
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### 14. TRANSPORT INFORMATION

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<b>Transport Information</b>	Transport under atmospheric pressure conditions and avoid freezing or high temperatures in excess of 55°C. Transportation class: Cleaning agents not otherwise specified.
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### 15. REGULATORY INFORMATION

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<b>Regulatory Information</b>	Not classified as hazardous
<b>Poisons Schedule</b>	Not scheduled



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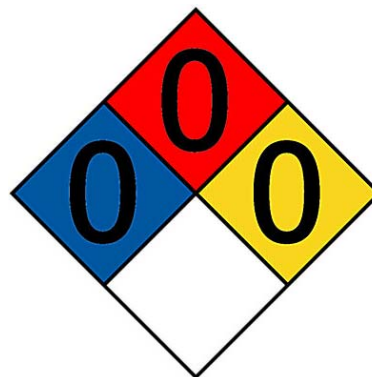
## 16. OTHER INFORMATION

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### NPCA-HMIS

HEALTH	/	0
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION	np	
 		

### NFPA 704



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