

MATERIAL SAFETY DATA SHEET (MSDS) for GRASSOLINE FISH FERTILIZER

SECTION 1 - PRODUCT INFORMATION	
Manufacturer's Name:	Emergency Telephone Number:
Vancouver Island Renueable Resources Ltd. 4001 Mid Port Road P.O. Box 625 Campbell River, BC V9W 5T9	(250) 287-8640- Tel (250) 287-8667- Fax Contact Person: Steve Morton
Trade Name and Synonyms:	Grassoline Fish Fertilizer, Liquid Fish
SECTION 2 - HAZARDOUS INGREDIENTS	
Hazardous Ingredients:	% Threshold Limit Value:
Ammonia (CAS #: 7664-41-7)	2 % Unknown, 10% of total aqueous ammonia is reportable (SARA)
Other Substances Contained in Product Regulated Under SARA, Title III, Section 313: None	
SECTION 3 - PHYSICAL DATA	
Physical State:	Liquid
Boiling Point:	100°C (212°F)
Vapor Pressure (mm Hg):	n/a
Solubility in Water:	80-85%
Specific Gravity (H ₂ O = 1):	1.14 – 1.16
Vapor Density (Air=1):	data unavailable
Reactivity in Water:	None
Appearance & Odor:	Grey Brown Liquid, Strong Fish odor
SECTION 4 - FIRE AND EXPLOSION DATA	
Flammability: No	
Flash Point (°F): data unavailable	Flammable Limits (%/Vol): n/a
Fire Extinguishing Media: Water spray, dry chemical, foam or carbon dioxide.	
Special Fire Fighting Procedures: Eliminate ignition source. Wear self-contained breathing apparatus and complete personal protective equipment. Use water spray to cool fire, exposed structures and tanks, and to disperse vapor cloud if fire is not present. Use water spray, dry chemical, carbon dioxide or foam.	
Unusual Fire & Explosion Hazards: Although this material is not flammable in aqueous state, it may burn in the presence of a strong ignition source after the water is removed.	
SECTION 5 – REACTIVITY DATA	
Stability:	Stable
Conditions to Avoid:	Excessive Heat
Incompatibility (Materials to Avoid):	Strong oxidizers
Hazardous Decomposition Products:	Ammonia, Oxides of Nitrogen and Oxides of Carbon
Hazardous Polymerization:	Will not occur
SECTION 6 – SPECIAL PRECAUTIONS	
Precautions to be taken in Handling & Storing: Store in cool, dry place, away from children and feed or food products. Do not contaminate other stored products or the storage area by the handling or storage of this material. Immediately clean up any spills, which may occur during storage. Do not allow material to freeze.	
Other Precautions: Do not contaminate water supplies by handling & storage, cleaning of equipment or disposal of wastes. Keep work & storage areas clean. Read & follow precautionary measures on	

product label.	
Other Precautions: Do not store diluted product.	
SECTION 7 – HEALTH HAZARD DATA	
Effects of Over Exposure: N/A	
Routes of Entry:	Ingestion, Eyes, Skin and Inhalation.
Most Likely Routes of Entry:	Inhalation and skin contact
Emergency & First Aid Procedures:	
Ingestion:	May be harmful if swallowed. Call a physician immediately.
Eyes:	Flush with running water for at least 15 minutes while holding eyes open. In cases of contact lenses, remove immediately. If irritation persists, get medical attention.
Skin:	Remove all contaminated clothing. Wash skin and hair thoroughly with soap and water. Wash clothing before reuse. If skin irritation persists, get medical attention.
Inhalation:	Remove to fresh air. If irritation persists, get medical attention.
Medical Conditions Aggravated by Exposure: None Known. Pre- existing skin or respiratory conditions may be aggravated by excessive and/or prolonged exposure to this material.	
Potential Carcinogen Status: None Known. None of the components of this material are listed by IARC, NTP or OSHA as a carcinogen.	
SECTION 8 – SPILL OR LEAK PROCEDURES	
If product is released or spilled: Contain spill; absorb liquids by covering with clay or other absorbent material; vacuum, scoop or sweep up wastes and place in approved container for disposal.	
Waste Disposal Method: Material which cannot be used at site should be disposed of in an approved waste disposal site, follow all applicable Federal, Provincial and Local laws. Triple rinse containers and offer for recycling or reconditioning, or puncture and dispose of in approved sanitary landfill. Do not contaminate water supplies by disposal of wastes or containers.	
SECTION 9 – SPECIAL PROTECTION INFORMATION	
Respiratory Protection: Not normally required. If vapors possibly could exceed acceptable levels, wear MSHA/NIOSH approved respirator or mask for protection against dusts, mists & vapors.	
Ventilation: always work in well ventilated area	
Local Exhaust: Not normally required.	Mechanical: Use if ventilation is inadequate
Protective Gloves:	Work gloves or impervious gloves recommended.
Eye Protection:	Chemical goggles or shielded safety glasses recommended.
Other Protective Equipment:	Wear clothing consistent with good practices for handling chemicals.
SECTION 10 - D.O.T. INFORMATION AND DATE OF PUBLICATION	
DOT Classification: Not Regulated	DOT Label: Not Required
Date of Issue: Nov. 13, 2009	Supersedes: n/a