

Liqui-Cover HD / Hydroshield HD



SAFETY DATA SHEET

EMERGENCY TELEPHONE NUMBER: 1- 403 - 862 - 3340 (24 Hrs)

Product Name: Liqui-Cover HD / Hydroshield HD
Date Issued: October 19, 2016

Prepared by: Fusion Technologies Inc.
& Version: 140-1.3

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

Product Name: Liqui-Cover HD / Hydroshield HD
Product Purpose: Reduction of evaporation from water bodies, pits or tanks
Supplier Identification: BarCliff Energy Services Ltd.
214 Sierra Vista Bay
Calgary, AB
T3H 3B8

PREPARER'S TELEPHONE NUMBER: 1 - 587 - 353 - 2940

2. HAZARDS IDENTIFICATION

Hazard Pictograms:



Signal word:

Warning

Primary Routes of Exposure: Eyes, and skin

Hazards not otherwise classified (HNOC) or not covered by GHS – none

Acute Effects:

Eye: May cause irritation. With prolonged contact, eye tissue injury and permanent eye damage may occur.
Skin: May cause irritation with prolonged contact.
Ingestion: Not a likely route of exposure. No adverse effect expected.
Inhalation: Repeated or prolonged exposure may irritate the respiratory tract.

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Chronic: No adverse effect expected other than those mentioned above.

3. PRODUCT COMPOSITION/INGREDIENTS

Chemical Name	CAS #	% by Weight
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This product is not regulated. None of the substances in this product are hazardous.

4. FIRST AID MEASURES

Eye Contact: Rinse eyes immediately with copious amounts of water and under the eyelids for at least 20 minutes. In the event that only one eye contaminated, ensure the uncontaminated eye is not affected by water run-off. If symptoms persist seek medical advice.

Skin Contact: Remove contaminated clothing. Immediately wash off all chemicals with soap and copious amounts of water. Remove all contaminated clothing and footwear under running water.

Ingestion: Do not induce vomiting without medical advice. If conscious, washout mouth and give person water to drink. Seek medical advice.

Inhalation: Remove to fresh air, treat symptomatically. If symptoms persist, seek medical advice.

5. FIRE FIGHTING MEASURES

Flash Point: 116 °C (240 °F)

Lower explosion Limit (LEL): Not available

Upper explosion Limit (UEL): Not available

Auto ignition temperature: Not available

Suitable Extinguishing Media: Water spray, foam, CO₂, dry chemical

Fire and explosion Hazard: Not flammable or combustible under normal conditions

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Specific Methods:

Cool tanks and containers with water spray.
Keep product and empty containers away from heat and ignition sources.

*Special Protective Equipment
For Firefighters:*

Wear self-contained breathing apparatus for fire fighting if required.

Specific Hazards:

Non-combustible. Heating can release hazardous gases.



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill or leak. Ventilate spill area if possible. PPE: see section 8.

Environmental Precautions:

N/A

Methods For Cleaning Up:

Absorb any spill with an inert material such as sand or earth, and then place into an appropriate waste container. Remove soiled refuse and place in a suitable disposal container.

Disposal:

Dispose of material in compliance with local, provincial and Federal regulations. See Section 13.

7. HANDLING AND STORAGE

Handling Precautions:

Handle wearing appropriate PPE as per section 8. Ensure adequate ventilation is available

Storage Precautions:

Store in suitable labeled containers. Store according to Provincial and Federal regulations. Keep in a dry place.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: This product does not contain any substance that has an established exposure limit.

Engineering Measures: General ventilation is recommended. Local Exhaust fan may be necessary when dust or mist is generated.

CAS	Chemical Name	ACGIH*
Not applicable	Not applicable	Not applicable

Hygiene Recommendations: Keep an eye wash fountain and safety shower available

Eye Protection: Wear safety glasses with side shields

Hand Protection: Wear Neoprene or Nitrile or PVC or Rubber or Butyl or Cloth gloves.

Respiratory Protection: Respiratory protection is not normally needed. If respiratory protection is required, institute a complete respiratory program including selection, fit testing, training, maintenance and inspections in accordance with Provincial and Federal regulations.

Skin and Body Protection: Wear standard protective clothing – consider to select type of protective clothing depending on quantity of chemical to be handled.

*ACGIH – Occupational exposure limits – TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Color: Blue to violet
Odor: Slight medicinal like
Boiling Point: Not determined
Vapor Pressure: Not applicable
Vapor Density: Not determined
Relative Density: 0.86 g/mL
pH: Not applicable
Solubility: Not soluble in water
Evaporation Rate: Not applicable

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Flash Point: 116 °C
Freezing Point: -29 °C (-20.2°F)
Viscosity: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions
Conditions to Avoid: None
Materials to Avoid: Strong oxidizers
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Fumes produced when heated may include oxides of carbon
Under Fire Conditions: Heating can release hazardous gases.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:
LD50/oral/rat: 2.9 g/mg
LC50/inhalation/8hr/rat: No data available
Sensitization: Not expected to be a sensitizer
Mutagenic Effects: No data available
Reproductive Toxicity: No data available
Carcinogenic Effects: No data available
Teratogenicity and Embryo Toxicity: No quantitative data available
Human Experience: Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
Other Toxicity Information: Toxicological Synergistic products: none known.

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12. ECOLOGICAL INFORMATION

<i>Acute Toxicity:</i>	Fathead Minnow (% survival)	Ceriodaphnia Dubia (% survival)
<i>48 Hour/Static testing:</i>	100	90

*Testing performed by Environmental Toxicity Control Inc. (Minnesota) on February 9, 2015.

13. DISPOSAL INFORMATION

Waste Residues/Unused Product and Package Dispose of waste in an approved incinerator or waste treatment site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage.

14. TRANSPORT INFORMATION

Typical proper shipping name for this product are as follows:

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Important Note: This information does not take the place of shipping paper (Bill of Lading or BOL)

15. REGULATORY INFORMATION

CANADA: Workplace Hazardous Material Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and is not a WHMIS controlled product.

This section contains additional information that may have relevance to regulatory compliance. The information contained in this section is for reference only. BarCliff Energy Services Ltd. accepts no liability for the use of this information.

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16. OTHER INFORMATION

NFPA 704M RATING

Health: 0 Flammability: 0 Instability: 0 Other: n/a

HMIS

Health: 0 Flammability: 0 Instability: 0 Other: n/a

0= insignificant 1= slight 2= moderate 3= high 4= Extreme * = Chronic Hazard

This material safety data sheet provides health and safety information for the safe use of this product provided it is used as recommended per the associated product literature. Users of this product should be aware of the recommended safety precautions. For any other use, exposures must be evaluated so that appropriate handling and training programs can be created and implemented to insure safe workplace operations. Consult with BarCliff Energy Services Ltd. for any additional information.