Enbridge
Suite 1100 – 425 W. Superior Street
Duluth, Minnesota 55802
USA

October 9, 2026

Ellie Romfoe, Hydrogeologist
Wisconsin Department of Natural Resources
Remediation and Redevelopment, Northern Region
1701 N 4th Street
Superior, WI 54880

Enbridge Energy – Line 5 NGL Sitan Road
14735N Sitan Road, Saxon, Wisconsin 54559
45-Day Immediate Actions Report
WDNR BRRTS Activity No. 02-26-599885

Dear Ellie,

On August 25, 2026, Enbridge reported a release of natural gas liquids (NGLs) at 14735N Sitan Road, Saxon, Wisconsin 54559. The release was initially assigned Spills Electronic Reporting Tracking System (SERTS) ID 20260825NO26-1. The spill was subsequently closed in SERTS, and the WDNR assigned Bureau for Remediation and Redevelopment Tracking System (BRRTS) Activity Number 02-26-599885.

The attached Immediate Actions Report fulfills the requirements of Wisconsin Administrative Code Chapter NR 708 by documenting the immediate actions completed to date. Because immediate and interim actions remain ongoing, Enbridge will submit a more comprehensive report documenting these activities at a later date.

Sincerely,

Shane Yokom

Shane E. Yokom

Environment Supervisor, LPUS

October 9, 2026

GEI Project No. 2605739

VIA EMAIL: Shane.Yokom@enbridge.com

Shane Yokom, Environment Supervisor - LPUS
Enbridge Energy, Limited Partnership
425 W. Superior Street, Suite 1100
Duluth, Minnesota 55802

Re: Enbridge Energy – Line 5 NGL Sitan Road
14735N Sitan Road, Saxon, Wisconsin 54559
45-Day Immediate Actions Report
WDNR BRRTS Activity No. 02-26-599885

Dear Mr. Yokom:

At the request of Enbridge Energy, Limited Partnership (Enbridge), GEI Consultants, Inc. has prepared this written documentation of the initial immediate actions completed at the Enbridge Energy – Line 5 Natural Gas Liquids (NGL) Sitan Road Site (Site). This document fulfills the requirements of Wisconsin Administrative Code Chapter NR 708 to document initial immediate actions; however, due to ongoing immediate and interim actions, Enbridge will submit a comprehensive report of Immediate/Interim Actions at a later date.

Reference: NR 708.05(6)(c)1.

Response:

The purpose of this submittal is to document the initial immediate actions completed at the Site following a discharge of NGL. Enbridge requests that the Wisconsin Department of Natural Resources (WDNR) acknowledge receipt of this submittal.

Reference: NR 708.05(6)(c)2.

Response:

Responsible Party:

Enbridge Energy, Limited Partnership
Shane Yokom, Environment Supervisor – LPUS
425 W. Superior Street, Suite 1100
Duluth, Minnesota 55802
Phone: 218-269-0369

Reference: NR 708.05(6)(c)3.

Response:

Property Address:

14735N Sitan Road
Saxon, Iron County, Wisconsin 54559

Property Boundary Coordinates:

NW Corner: 485044 E, 670966 N
NE Corner: 485446 E, 670961 N
SE Corner: 485435 E, 670549 N
SW Corner: 485035 E, 670554 N
Coordinate System: Wisconsin Transverse Mercator '91.

Public Land Survey System (PLSS) Classification:

Section 35, Township 47 North, Range 1 West

Incident Location:

SW¼ of the NE¼, Section 35, Township 47 North, Range 1 West
Latitude: 46.509300°, Longitude: -90.450866°

Reference: NR 708.05(6)(c)4.

Response:

1. *Name, address, and telephone number of the person reporting the discharge.*
   Enbridge Energy, Limited Partnership
   Michael Mahon, Senior Environment Advisor
   1613 24th Avenue East
   Superior, Wisconsin 54880
   Phone: 218-451-0054

2. *Name, address, and telephone number of the discharger, or owner and operator of the UST system and any other potentially responsible persons.*
   Enbridge Energy, Limited Partnership
   Shane Yokom, Environment Supervisor - LPUS
   425 W. Superior Street, Suite 1100
   Duluth, Minnesota 55802
   Phone: 218-269-0369

3. *Date, time, and duration of the discharge*:
   The discharge occurred on August 25, 2026, at approximately 10:00 AM.
   Line 5 Pipeline was shut down on August 25, 2026, at 10:03 AM.
   The pipeline was fully depressurized on August 29, 2026.

4. *Identity, physical state, and quantity of the material discharged.*
   Natural Gas Liquids (**Safety Data Sheet [SDS] Included in Attachment A**)
   i. An estimated 33,000 barrels (bbls) were discharged.
      1. Approximately 31,000 bbls released into the atmosphere as vapor

2. Approximately 2,000 bbls released into the excavation as liquid
    a. Of the approximate 2,000 bbls released into the excavation as free liquid, sparging, off-gassing, and infiltration occurred until approximately 165 bbls remained which was recovered by vacuum activities.

5. *Physical, chemical, hazardous, and toxicological characteristics of the substance.*
    NGL is a volatile, flammable petroleum mixture that may exist as a pressurized liquid and rapidly vaporizes upon release. Primary hazards include fire and explosion, displacement of oxygen, inhalation of vapors, and cold-contact injury during rapid depressurization. Toxicological concerns are associated primarily with constituent hydrocarbons, including volatile organic compounds (VOCs). Petroleum-related VOCs and polycyclic aromatic hydrocarbons (PAHs) have been included in the environmental investigation.

6. *Cause of the discharge.*
    A third-party flatbed truck struck an exposed section of the Line 5 pipeline at an active construction site.

7. *Immediate actions being taken and the name of the contractor or other person performing the action.*
    - An immediate evacuation zone with a radius of 0.5 miles (800 meters) was established around the NGL incident site in accordance with guidance in the Emergency Response Guidebook (ERG) for large flammable gas releases. The ERG is jointly published by the U.S. Department of Transportation and Transport Canada.

    - Incident stabilization and Site controls: Established controlled work zones and implemented continuous air monitoring, personal gas monitoring, erosion and sediment controls, secondary containment, and routine environmental inspections to protect workers, the public, and surrounding environmental resources.

    - Evaluation of potentially impacted media: Conducted environmental assessments of soil, surface water, perched water, private potable wells, vegetation, and nearby properties using visual and olfactory observations, field screening, laboratory analysis, temporary monitoring wells, soil borings, and repeated sampling where verification was warranted. Sampling has been expanded laterally and vertically as additional Site information became available.

    - Source-area and preferential-pathway evaluation: Evaluated the incident excavation, adjacent surface soils, existing soil stockpiles, a western ravine, and the Line 5 corridor as potential pathways for impact migration. This work has included hydro-excavation, hand auger borings, direct-push borings, field screening, and collection of soil and water samples, including split samples with the WDNR.

- Mechanical removal of impacted material: Removed impacted soil from the incident excavation based on visible observations and field-screening. Used mechanical excavation with the removal guided by ongoing photoionization detector (PID) screening, which was followed up by targeted scraping and over-excavation of remaining affected areas.

- Containment and off-site disposal of excavated soil: Constructed and maintained an on-Site lined containment cell for temporary management of excavated soil, covered stockpiled material when work was not active, established an approved waste profile, and initiated manifested transportation and disposal at an approved landfill.

- Recovery and management of product and liquids: Used vacuum trucks, tankers, containment vessels, and frac tanks to recover product, excavation water, decontamination water, stormwater where necessary, and water mixed with firefighting foam. Recovered liquids have been segregated and placed into containment vessels.

- Removal and decontamination of affected equipment and debris: Removed pipeline segments, the flatbed truck, miscellaneous equipment, plastic sheeting, timber mats, personal protection equipment (PPE), and other debris from the incident area. Reusable equipment and materials have been decontaminated within controlled containment areas, with wash water collected for management as a special liquid waste and non-reusable materials have been containerized in designated roll-off containers.

- Confirmation and adaptive remediation: Field screening and laboratory confirmation sampling is ongoing to assess removal effectiveness, identify localized remaining impacts, and direct additional targeted excavation.

- Protection of nearby receptors and sensitive resources: Sampled private potable wells and nearby surface-water locations, assessed residential properties, delineated wetlands, evaluated stressed vegetation, completed wildlife and tree surveys, and installed or maintained environmental control measures near wetlands, drainage features, and disturbed work areas.

- Regulatory coordination and documentation: Maintained regular communications with the WDNR, supported regulatory Site visits and split-sampling events, provided analytical updates, submitted work plans, and adjusted investigation and remediation activities as field and analytical information became available.

Primary Response Personnel: Enbridge Energy, Limited Partnership
Primary Remediation Contractor: Michels Pipeline Inc.
Waste Transportation Contractors: Reworld Waste LLC, Hass Transport Inc., Ruotsala Construction Companies, Niemi Trucking Inc., Wolverine HydroEx Inc., LK1 Services, Trawicki & Sons LLC, and Northern Interstate Construction Inc.

8. *Source, speed of movement, and destination or probable destination of the discharged hazardous substance.*

   The discharge originated from the damaged pipeline at the incident excavation. Upon release and depressurization, a substantial portion of the NGL volatilized and dispersed into the atmosphere, with a vapor cloud affecting approximately 2.3 acres of vegetation through cold shock before dissipating. Liquid-phase NGL that did not volatilize remained within the release area's existing excavation and contacted the surrounding soil. Some liquid is believed to have penetrated through cohesive soil pore space or soil secondary porosity and migrated preferentially east and west along the Line 5 pipeline corridor. Accordingly, the probable destinations of the discharged material were the atmosphere for the volatilized fraction and localized soil, including soil along the pipeline, for the retained liquid fraction.

9. *Actual or potential impacts to human health and the environment, including actual or potential impacts to drinking water supplies.*

   Petroleum-related VOCs and PAHs have been identified in soil at the Site of the release, including localized benzene concentrations above the WDNR soil-to-groundwater residual contaminant level, identifying soil and potential migration to water as the principal environmental concerns. No impacts to surface water have been identified, and private potable well results and groundwater sampled from sentinel wells established outside the safety perimeter did not identify petroleum-related VOC impacts. Soil delineation, removal, and confirmation sampling activities are ongoing to address soil impacts and verify protection of surrounding environmental media.

10. *Weather conditions existing at the scene, including presence of precipitation and wind direction and velocity.*

Date	8/25/2026
Location	Saxon, WI (Gogebic – Iron County Airport Meteorological Data)
High Temperature	79°F
Low Temperature	47°F
Precipitation	0.00 in
Conditions	Partly Cloudy
Wind (mph)	5-20
Wind (Predominant Direction)	Southwest, South

11. *Other agencies on-scene:*

    No other agencies were on-Site regarding Site remediation. PHMSA was on-Site (in a safe/cold zone) during the release event.

Reference: NR 708.05(6)(c)5.

Response:

Not Applicable at this time.

Reference: NR 708.05(6)(c)6.

Response:

Waste Management Summary (through October 7, 2026):
Approximately 4,500 gallons of municipal water mixed with PFAS-free firefighting foam (**SDS included in Attachment A**) has been disposed of at Reworld Fox Valley/Oshkosh Material Processing Facility (MPF) in Winneconne, WI.

Approximately 4,275 tons of impacted soil/debris have been disposed of at Waste Management's Timberline Trail Landfill in Weyerhaeuser, WI.

Final waste documentation is pending as activities generating waste and disposal activities are ongoing. This documentation will be provided in the comprehensive Immediate/Interim Actions Report.

Please feel free to contact us if you have any questions.

Sincerely,

GEI Consultants, Inc.



Bradley Dal Santo
Senior Professional, Environment



Ken Kytta
Senior Consultant, Vice President

Attachment A: Safety Data Sheets

BJD/kdk

cc: Michael Mahon, Enbridge

Attachments

A: Safety Data Sheets

Section 1: IDENTIFICATION

Product Name:	NGL on Enbridge
Synonyms:	Not available.
Product Use:	Refinery feedstock.
Restrictions on Use:	Not available.
Manufacturer/Supplier:	Plains Midstream Canada ULC, and Affiliates Suite 1400, 607 – 8th Avenue SW Calgary, Alberta T2P 0A7
Phone Number:	1-866-875-2554
Emergency Phone:	USA - CHEMTREC 1-800-424-9300 / CANADA - CANUTEC 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone
Date of Preparation of SDS:	April 11, 2016

Section 2: HAZARD(S) IDENTIFICATION

GHS INFORMATION

Classification:
Flammable Gases, Category 1
Gases Under Pressure - Liquefied Gas
Germ Cell Mutagenicity, Category 1B
Carcinogenicity, Category 1A
Toxic to Reproduction, Category 2
Specific Target Organ Toxicity (Repeated Exposure), Category 2
Simple Asphyxiant, Category 1

LABEL ELEMENTS

Hazard Pictogram(s):



Signal Word: Danger

Hazard Statements:
Extremely flammable gas.
Contains gas under pressure; may explode if heated.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
May displace oxygen and cause rapid suffocation.

Precautionary Statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe gas.
Wear protective gloves, protective clothing and eye protection.

Response: If exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
In case of leakage, eliminate all ignition sources.

Storage: Store in a well-ventilated place.
Store locked up.
Protect from sunlight.

Disposal: Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: 6% of this product mixture consists of ingredient(s) of unknown acute toxicity.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200). This material is considered hazardous by the Hazardous Products Regulations.

This material is considered hazardous by the Hazardous Products Regulations, 2015.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% vol./vol.
Natural gas (petroleum), raw liq. mix	Not available.	64741-48-6	100
Propane	Not available.	74-98-6	55 - 80
Butane	Not available.	106-97-8	10 - 25
Propane, 2-methyl-	Isobutane	75-28-5	3 - 16
Pentane	Not available.	109-66-0	0 - 6
Ethane	Not available.	74-84-0	0 - 6
Butane, 2-methyl-	Isopentane	78-78-4	0 - 6
Hexane	Not available.	110-54-3	0 - 5
Methane	Not available.	74-82-8	0 - 3
Heptane	Not available.	142-82-5	0 - 3
Benzene	Not available.	71-43-2	0 - 1
Benzene, methyl-	Toluene	108-88-3	0 - 1

Section 4: FIRST-AID MEASURES

Inhalation: If inhaled: Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May displace oxygen and cause rapid suffocation. Central nervous system depression can occur if product is present in concentrations that will reduce the oxygen content of air below 18 % (vol). Symptoms may include headache, lightheadedness, drowsiness, disorientation, vomiting and seizures. Unconsciousness and death may occur with severe oxygen deprivation. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Eye Contact: If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

Acute and delayed symptoms and effects: Contact with rapidly expanding or liquefied gas may cause irritation and/or frostbite. The pain after contact with liquid can quickly subside. Permanent eye damage or blindness could result.

Skin Contact: Contact with rapidly expanding or liquefied gas may cause irritation and/or frostbite. If on skin: Wash with plenty of water. Get immediate medical advice/attention. Thaw frosted parts with lukewarm water. Do not rub affected area. Remove non-adhering contaminated clothing. Do not remove adherent material or clothing.

Acute and delayed symptoms and effects: Contact with rapidly expanding or liquefied gas may cause irritation and/or frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after contact with liquid can quickly subside.

Ingestion: Not a normal route of exposure.

Acute and delayed symptoms and effects: Not a normal route of exposure.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE-FIGHTING MEASURES

FLAMMABILITY AND EXPLOSION INFORMATION

Extremely flammable gas. Contains gas under pressure; may explode if heated. Will be easily ignited by heat, sparks or flames. Will form explosive mixtures with air. Vapors from liquefied gas are initially heavier than air and spread along ground. Vapors may travel to source of ignition and flash back. Cylinders exposed to fire may vent and release flammable gas through pressure relief devices. Containers may explode when heated. Ruptured cylinders may rocket. DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.

Fire involving Tanks: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact.
Sensitivity to Static Discharge: This material is sensitive to static discharge.

MEANS OF EXTINCTION

Suitable Extinguishing Media: Small Fire: Dry chemical or CO2.

Large Fire: Water spray or fog. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media:	Not available.
Products of Combustion:	Oxides of carbon.
Protection of Firefighters:	Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leakage, eliminate all ignition sources. Vapors may cause dizziness or asphyxiation without warning. Some may be irritating if inhaled at high concentrations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire may produce irritating and/or toxic gases. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of low areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded.
Personal Precautions:	Do not touch or walk through spilled material. Use personal protection recommended in Section 8.
Environmental Precautions:	Not normally required.
Methods for Containment:	Stop leak if you can do it without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Do not direct water at spill or source of leak.
Methods for Clean-Up:	Prevent spreading of vapors through sewers, ventilation systems and confined areas. Isolate area until gas has dispersed. CAUTION: When in contact with refrigerated/cryogenic liquids, many materials become brittle and are likely to break without warning.
Other Information:	See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Handling:
Do not breathe gas. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. See Section 8 for information on Personal Protective Equipment.

Storage:
Store in a well-ventilated place. Store locked up. Protect from sunlight. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines
Component

Natural gas (petroleum), raw liq. mix [CAS No. 64741-48-6]
ACGIH: No TLV established.
OSHA: No PEL established.

Propane [CAS No. 74-98-6]
ACGIH: Asphyxia
OSHA: 1000 ppm (TWA), 1800 mg/m³ (TWA);

Butane [CAS No. 106-97-8]
ACGIH: 1000 ppm (STEL); (2012)
OSHA: 800 ppm (TWA) [Vacated];

Isobutane [CAS No. 75-28-5]
ACGIH: 1000 ppm (STEL); (2012)
OSHA: No PEL established.

Pentane [CAS No. 109-66-0]
ACGIH: 1000 ppm (TWA); (2013)
OSHA: 1000 ppm (TWA), 2950 mg/m³ (TWA);
600 ppm (TWA); 750 ppm (STEL) [Vacated];

Ethane [CAS No. 74-84-0]
ACGIH: Asphyxia
OSHA: No PEL established.

Isopentane [CAS No. 78-78-4]
ACGIH: 1000 ppm (TWA); (2013)
OSHA: No PEL established.

Hexane [CAS No. 110-54-3]
ACGIH: 50 ppm (TWA); Skin, BEI (1996)
OSHA: 500 ppm (TWA), 1800 mg/m³ (TWA); Skin.
50 ppm (TWA) [Vacated];

Methane [CAS No. 74-82-8]
ACGIH: Asphyxia
OSHA: No PEL established.

Heptane [CAS No. 142-82-5]
ACGIH: 400 ppm (TWA); 500 ppm (STEL); (1979)
OSHA: 500 ppm (TWA), 2000 mg/m³ (TWA);
400 ppm (TWA); 500 ppm (STEL) [Vacated];

Benzene [CAS No. 71-43-2]

ACGIH: 0.5 ppm (TWA); 2.5 ppm (STEL); Skin; A1; BEI (1996)

OSHA: 1 ppm (TWA); 5 ppm (STEL);

Toluene [CAS No. 108-88-3]

ACGIH: 20 ppm (TWA); A4; BEI (2006)

OSHA: 200 ppm (TWA); 300 ppm (C); 500 ppm (Peak) (Maximum duration: 10 minutes.)
100 ppm (TWA); 150 ppm (STEL) [Vacated];

PEL: Permissible Exposure Limit
TLV: Threshold Limit Value
TWA: Time-Weighted Average
STEL: Short-Term Exposure Limit
C: Ceiling

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection: Wear cold insulating face shield and eye protection. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Hand Protection: Wear protective gloves. Wear cold insulating gloves. Consult manufacturer specifications for further information.

Skin and Body Protection: Wear protective clothing.

Respiratory Protection: If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-11, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquefied gas.
Colour:	Colourless.
Odour:	Slight hydrocarbon.
Odour Threshold:	Not available.
Physical State:	Gas.
pH:	Not available.
Melting Point / Freezing Point:	Not available.
Initial Boiling Point:	Not available.
Boiling Range:	-42 °C (-43.6 °F) (Propane)
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability (solid, gas):	Extremely flammable gas.
Lower Flammability Limit:	2.1 % (Propane)
Upper Flammability Limit:	9.5 % (Propane)
Vapor Pressure:	900 to 1300 kPa gauge at 37.8 °C (100 °F) (ASTM D2598M)
Vapor Density:	Not available.
Relative Density:	0.500 to 0.550 (Air = 1) at 15 °C (59 °F) (calculated)
Solubilities:	Slightly soluble in water.
Partition Coefficient: n-Octanol/Water:	Not available.
Auto-ignition Temperature:	225 °C (437 °F) (Hexane)
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Percent Volatile, wt. %:	100
VOC content, wt. %:	Not available.
Density:	Not available.
Coefficient of Water/Oil Distribution:	Not available.

Section 10: STABILITY AND REACTIVITY

Reactivity:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Chemical Stability:	Stable under normal storage conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Contact with incompatible materials. Sources of ignition. Exposure to heat.

Incompatible Materials: Oxidizers.

Hazardous Decomposition Products: Not available.

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

Component Toxicity

Component	CAS No.	LD_{50} oral	LD_{50} dermal	LC_{50}
Natural gas (petroleum), raw liq. mix	64741-48-6	Not available.	Not available.	Not available.
Propane	74-98-6	Not available.	Not available.	Not available.
Butane	106-97-8	Not available.	Not available.	658000 mg/m³ (rat); 4H
Isobutane	75-28-5	Not available.	Not available.	570000 ppm (rat); 15M
Pentane	109-66-0	400 mg/kg (rat)	Not available.	364000 mg/m³ (rat); 4H
Ethane	74-84-0	Not available.	Not available.	Not available.
Isopentane	78-78-4	Not available.	Not available.	Not available.
Hexane	110-54-3	25000 mg/kg (rat)	Not available.	48000 ppm (rat); 4H
Methane	74-82-8	Not available.	Not available.	Not available.
Heptane	142-82-5	Not available.	Not available.	103000 mg/m³ (rat); 4H
Benzene	71-43-2	930 mg/kg (rat)	> 9400 µL/kg (rabbit)	10000 ppm (rat); 7H
Toluene	108-88-3	2600 mg/kg (rat)	14.1 mL/kg (rabbit)	49000 mg/m³ (rat); 4H

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Skin absorption.

Target Organs: Skin. Eyes. Respiratory system. Cardiovascular system. Bone marrow. Liver. Kidneys. Central nervous system. Peripheral nervous system.

Symptoms (including delayed and immediate effects)

Inhalation: May displace oxygen and cause rapid suffocation. Central nervous system depression can occur if product is present in concentrations that will reduce the oxygen content of air below 18 % (vol). Symptoms may include headache, lightheadedness, drowsiness, disorientation, vomiting and seizures. Unconsciousness and death may occur with severe oxygen deprivation. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Eye: Contact with rapidly expanding or liquefied gas may cause irritation and/or frostbite. The pain after contact with liquid can quickly subside. Permanent eye damage or blindness could result.

Skin: Contact with rapidly expanding or liquefied gas may cause irritation and/or frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after contact with liquid can quickly subside.

Ingestion: Not a normal route of exposure.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Medical Conditions Aggravated By Exposure: Not available.

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Respiratory system. Blood. Cardiovascular system. Bone marrow. Liver. Kidneys. Central nervous system. Peripheral nervous system.

Chronic Effects: Hazardous by OSHA/WHMIS criteria. May cause chronic effects. Prolonged or repeated inhalation of Isopentane may cause dizziness, weakness, weight loss, anemia, nervousness, pains in the limbs and peripheral numbness. Chronic inhalation of n-Hexane may cause peripheral nerve disorders and central nervous system effects. Reports of chronic poisoning with Benzene or Toluene describe anemia, decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Immunodepressive effects have also been reported for Benzene.

Carcinogenicity: May cause cancer. Chronic exposure to benzene has been associated with an increased incidence of leukemia and multiple myeloma (tumour composed of cells of the type normally found in the bone marrow).

Component Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Prop 65
Benzene	A1	Group 1	List 1	OSHA Carcinogen.	Listed.
Toluene	A4	Group 3	Not listed.	Not listed.	Not listed.

Mutagenicity: May cause genetic defects.

Reproductive Effects: Suspected of damaging fertility or the unborn child.

Developmental Effects

Teratogenicity: Not available.

Embryotoxicity: Possible risk of harm to the unborn child. Benzene has caused adverse fetal effects in laboratory animals. Exposure to Toluene may affect the developing fetus.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Other Adverse Effects: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Proper Shipping Name: UN1075, PETROLEUM GASES, LIQUEFIED, 2.1

Class: 2.1

UN Number: UN1075

Packing Group: Not applicable.

Label Code:



Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name: UN1075, PETROLEUM GASES, LIQUEFIED, 2.1

Class: 2.1

UN Number: UN1075

Packing Group: Not applicable.

Label Code:



Section 15: REGULATORY INFORMATION

Chemical Inventories

US (TSCA)
The components of this product are in compliance with the chemical notification requirements of TSCA.

Canada (DSL)
The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Federal Regulations

United States

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III

Component	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 112(r) TQ (lbs.)
Propane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Butane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Pentane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Ethane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Isopentane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Hexane	Not listed.	Not listed.	5000	313	Not listed.	Not listed.
Methane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Heptane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.
Benzene	Not listed.	Not listed.	10	313	U019	Not listed.
Toluene	Not listed.	Not listed.	1000	313	U220	Not listed.

State Regulations

Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Component	CAS No.	RTK List
Propane	74-98-6	Listed.
Butane	106-97-8	Listed.
Isobutane	75-28-5	Listed.
Pentane	109-66-0	Listed.
Ethane	74-84-0	Listed.
Isopentane	78-78-4	Listed.
Hexane	110-54-3	Listed.
Methane	74-82-8	Listed.
Heptane	142-82-5	Listed.
Benzene	71-43-2	E
Toluene	108-88-3	Listed.

Note: E = Extraordinarily Hazardous Substance

New Jersey

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Component	CAS No.	RTK List
Propane	74-98-6	SHHS
Butane	106-97-8	SHHS
Isobutane	75-28-5	SHHS
Pentane	109-66-0	SHHS
Ethane	74-84-0	SHHS
Isopentane	78-78-4	SHHS

Hexane	110-54-3	SHHS
Methane	74-82-8	SHHS
Heptane	142-82-5	SHHS
Benzene	71-43-2	SHHS
Toluene	108-88-3	SHHS

Note: SHHS = Special Health Hazard Substance

Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Component	CAS No.	RTK List
Propane	74-98-6	Listed.
Butane	106-97-8	Listed.
Isobutane	75-28-5	Listed.
Pentane	109-66-0	Listed.
Ethane	74-84-0	Listed.
Isopentane	78-78-4	Listed.
Hexane	110-54-3	Listed.
Methane	74-82-8	Listed.
Heptane	142-82-5	Listed.
Benzene	71-43-2	ES
Toluene	108-88-3	E

Note: E = Environmental Hazard; S = Special Hazardous Substance

California

California Prop 65: WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Component	Type of Toxicity
Benzene	cancer; developmental, male
Toluene	developmental
Ethylbenzene	cancer

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

Date of Preparation of SDS: April 11, 2016

Version: 1.1

GHS SDS Prepared by: **Deerfoot Consulting Inc.**

Phone: (403) 720-3700

Product Identifier

Product Name: PyroCool® Green

Intended Use of the Product: Fire Fighting Agent

Name, Address, and Telephone of the Responsible Party

EnviroCool LLC
16950 Wallisville Road
Houston, TX 77049
832-376-4500

Emergency Telephone Number

Emergency number : (832) 376-4500

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Eye Damage/Eye Irritation	Cat 2B

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) : Not a hazardous substance

Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) H320 - Causes Eye Irritation

Precautionary Statements (GHS-US) :

P264 - Wash thoroughly after handling
P280 - Wear eye protection, protective clothing, protective glove
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - IF eye irritation persists: Get medical attention
P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations

Other Hazards Not available
Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Mixture

THE HAZARD COMMUNICATION STANDARD (HCS) (29 CFR 1910.1200(G)) REQUIRES THAT ENVIROCOOL LLC LIST EACH HAZARDOUS CHEMICAL TO DOWNSTREAM USERS AND TO COMMUNICATE INFORMATION ABOUT THESE HAZARDS. PYROCOOL GREEN DOES NOT CONTAIN ANY HAZARDOUS CHEMICALS AS DEFINED BY 1910.1200 – HAZARD COMMUNICATION. PYROCOOL GREEN IS A BLEND OF ORGANIC SURFACTANTS BEING ANIONIC, NONIONIC AND AMPHOTERIC SURFACTANTS.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
Skin Contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion: Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Not available

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: This product is intended for use as a fire-fighting agent. It is not combustible
Unsuitable Extinguishing Media: None known

Special Hazards Arising From the Substance or Mixture

Explosion Hazard: Not expected to be an explosion hazard

Advice for Firefighters

Precautionary Measures Fire: Self-contained breathing apparatus and full protective clothing

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Protective Equipment: Standard personal protective equipment
Protective Equipment: Ensure adequate ventilation

Methods and Material for Containment and Cleaning Up

For Spill: Ventilate area, persons performing clean-up should wear adequate protection equipment. Stop the source of the spill if you can do so without risk. Contain the spill to prevent spread. Clean up the spill as soon as possible by absorbing the spilled liquid with earth, sand, or similar inert material and disposing of the solid waste mixture in accordance with all applicable regulations. Flush spill area with water.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: Avoid contact with eyes. Observe good industrial hygiene practices.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Material should be stored in its own container and should always be kept covered when not in use

Specific End Use(s)

Fire-Fighting Agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits: No exposure limits noted for ingredients

Exposure Controls

Appropriate Engineering Controls: Use sufficient mechanical (general) or local exhaust

Personal Protective Equipment: Gloves. Apron. Face shield/goggles

Materials for Protective Clothing
Hand Protection: Gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Appearance	:	light yellow
Odor	:	mild
Odor Threshold	:	Not available
pH	:	7.0- 8.0
Relative Evaporation Rate (butylacetate=1)	:	Not available
Cloud Point	:	~21 °F (-6 °C)
Freezing Point	:	~19 °F 9-7 °C)
Boiling Point	:	Not available
Flash Point	:	>201°F (>93.9°C)
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available
Lower Flammable Limit	:	Not available
Upper Flammable Limit	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 20 °C	:	8.4 lbs/gal
Density	:	1.0 g/cm^3 @ 20°C, ASTM D-287
Specific Gravity	:	Not available
Solubility	:	Not available
Log Pow	:	Not available
Log Kow	:	Not available
Viscosity	:	5-20 cps @ 20°C
Explosion Data – Sensitivity to Mechanical Impact	:	Not available
Explosion Data – Sensitivity to Static Discharge	:	Not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: stable

Possibility of Hazardous Reactions: will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General: This product is not known to be carcinogenic and is non-toxic when used in mixed solution (0.4%). This product contains no fluorocarbons

Mammalian Toxicity, LC50: >50g/kg

Serious Eye Damage/Irritation: Causes eye irritation
Respiratory or Skin Sensitization: May cause skin irritation
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: None currently known
Symptoms/Injuries After Skin Contact: May cause skin irritation.
Symptoms/Injuries After Eye Contact: Causes eye irritation.
Symptoms/Injuries After Ingestion: May cause nausea, vomiting, diarrhea. No effects of exposure when product is used at normal dilution of 2 parts product to 500 parts water
Information on Toxicological Effects - Ingredient(s)
LD50 and LC50 Data

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

(0.4% Use Solution)	
LC50 Algae	>700 mg/l (Exposure time: 72 h)
EC50 Daphnia 1	>11,600 mg/l (Exposure time: 48 h)
LC 50 Fish 1	>10,000 mg/l (Exposure time: 96 h)

Persistence and Degradability

PyroCool Green	
Persistence and Degradability	OECD Test Guideline 301F (28d): Expected to be readily biodegradable

Bioaccumulative Potential

PyroCool Green	
Bioaccumulative Potential	Not established.

Mobility in Soil Not available

Other Adverse Effects

Other Information: No other adverse environmental effects are expected from this component

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of material in accordance with all local, regional, national, provincial, territorial and international regulations.
Additional Information: Empty containers should be taken to an approved site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

DOT Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

PyroCool Green
All ingredients listed on the United States TSCA (Toxic Substances Control Act) inventory

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Not Listed

SARA 302 Extremely Hazardous Substance: Not listed
SARA 311/312 Hazardous Chemical: Not Listed
SARA 313 (TRI reporting): Not regulated
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated
Safe Drinking Water Act (SDWA): Not regulated

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Indication of Changes : Revision date 03/26/2020
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

Party Responsible for the Preparation of This Document

Hon-R Chemicals
16950 Wallisville Rd
Houston, TX 77095
(832) 376-4500

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Hon-R Chemicals
16950 Wallisville Rd., Houston, TX 77049
(832) 376-4500

PFAS-Free Disclosure Statement

Date of issue: September 24, 2026

Product Name: PyroCool® Green

Product Use: Fire-Fighting Agent

Hon-R Chemicals certifies that PyroCool® Green does not contain per- and polyfluoroalkyl substances (PFAS), including but not limited to fluorotelomers, perfluorooctane sulfonate (PFOS), and perfluorooctanoic acid (PFOA), as raw materials or as intentionally added components of the formulation.

This disclosure is consistent with the product's Safety Data Sheet (Section 11, Toxicological Information), which states that PyroCool® Green “contains no fluorocarbons.” PyroCool® Green is formulated as a blend of anionic, nonionic, and amphoteric organic surfactants.

This statement is provided based on current formulation records and supplier representations for the raw materials used in this product. It does not constitute a warranty and is subject to revision if formulation information changes.

Hon-R Chemicals
16950 Wallisville Rd., Houston, TX 77049
(832) 376-4500

Signature: Derek Vaughn

Name / Title: Derek Vaughn, Quality Manager

Date: September 24, 2026