# Level 2 Risk and Safety Management Plan Budget Propane Corporation 15 Silver Sands Lake Road MacTier (Township of Georgian Bay), Ontario

prepared on behalf of:

Budget Propane Corporation 1011 Beiers Road, RR#1 Gravenhurst, Ontario P1P 0C7

by:



5 Marsh Street Fenelon Falls, Ontario K0M 1N0

on:

July 18, 2025

### 8.0 EMERGENCY RESPONSE AND PREPAREDNESS PLAN

Budget Propane has developed an Emergency Response and Preparedness Plan ("ERPP") which is designed to help prevent, manage, and mitigate emergencies involving propane at the MacTier facility. It is intended to protect the public, property and environment from the consequences of a propane emergency. The ERPP has been developed to comply with applicable provisions of Ontario Regulation 211/01, the Environmental Emergency Regulations, made under the Canadian Environmental Protection Act, and CSA-Z731-03 (R2014) *Emergency Preparedness and Response*.

The ERPP considers two types of propane releases from the facility: onsite (generally small) releases and offsite or external releases.

Most aspects of the ERPP are associated with post-incident response and are not considered preventative. Some components of the ERPP; however, are designed to mitigate damage or prevent incident escalation. Where appropriate, these aspects of the ERPP have been factored into the quantitative risk assessment in Section 10.

### 8.1 Requirement for Emergency Response Assistance Plan

Budget Propane is required to have an Emergency Response Assistance Plan ("ERAP") approved by Transport Canada because it consigns bulk propane in quantities above the threshold limit of 3,000 L (793 USWG), as specified in Part 7 of the TDG Regulations.

Budget Propane will use the ERAP, #2-0010-328, which is administered by Emergency Response Assistance Canada ("ERAC"), a subsidiary of the Canadian Propane Association ("CPA").

### 8.2 Requirement for Environmental Emergency Plan

The propane filling plant is required to prepare an Environmental Emergency ("E2") Plan with Environment Canada because the bulk storage quantity will be above the threshold of 4.5 metric tonnes.

Budget Propane has adopted the ERPP as the E2 Plan, and is filing the required notification schedules for the proposed modifications.

### 8.3 Budget Propane MacTier Onsite Emergency Response Plan

The ERPP has been developed to provide further direction and clarification of responsibilities to the staff and management of Budget Propane for propane releases and incidents. The plan outlines how the company personnel will notify external agencies and assemble key staff to communicate, collaborate, coordinate, manage, and recover from an emergency.

The plan includes the following components:

- duties and responsibilities of personnel involved in management of an emergency;
- hazards associated with handling and use of propane;

- facility information;
- propane emergency prevention measures;
- how to initiate an emergency shutdown to stop product flow and isolate power to electrical devices;
- a list of emergency equipment and resources available to personnel during an emergency;
- training policy;
- evacuation procedures in case of propane leak or fire;
- review and update of the ERPP; and
- a site plan.

The ERPP describes evacuation procedures, both internal and external, and what actions are to be taken during a propane leak or fire at, or in the vicinity of, the facility. The ERPP also includes how to stop a propane flow feeding a fire and the location of the emergency shutdown devices.

A copy of the current ERPP is provided in Appendix H.

### 8.3.1 Activation

In the event of a propane emergency, the plan can be activated by placing a call to "911" with the option of calling the ERAC call centre.

### 8.4 Emergency Planning - External

The following sections are included to address external emergency response and preparedness.

8.4.1 Names or Positions of Persons Authorized to Set Emergency Procedures In

Motion

The person or persons identified in the ERPP as authorized to set emergency procedures "in motion", and to take charge and coordinate offsite action will be established through the "Emergency Services Unified Command Structure", as described in Table 3 – "Emergency Roles and Their Respective Responsibilities" of the ERPP.

## 8.4.2 <u>Arrangements For Receiving Early Warning of Incidents, Alert and Call-Out</u> Procedures

The MacTier facility will have at least one operator onsite while propane operations are conducted. Early warning of incidents during an emergency can be completed by staff or neighbors calling "911" as described in Section 8.2 of the ERPP.

8.4.3 <u>Arrangements for Coordinating Resources Necessary to Implement the External Emergency Plan</u>

Equipment and resources that may be used in the event of a propane emergency are kept in Budget Propane bulk trucks. Additional equipment and resources may be obtained by

activating the ERAC ERAP. Company Management may also requisition third-party resources at the request of the Internal Response Manager. Activation of the ERPP, ERAP and the coordination of additional resources are described on pages 13, 20-24, and 28-31 of the ERPP.

### 8.4.4 Arrangements for Providing Assistance With Onsite or Offsite Mitigation Actions

Equipment resources identified above, as well as designated Budget Propane personnel listed in Table 4 of the ERPP may be used to assist with onsite or offsite mitigation.

### 8.4.5 Arrangements for Providing the Public With Specific Information

As described in Figure 1 - "Incident Command Organizational Chart", and in Table 3 – "Emergency Roles and Their Respective Responsibilities" of the ERPP, limited communication to the public may be provided by the Company Spokesperson. Additional communication may be provided as designated by the Emergency Services Unified Structure.

# 8.4.6 <u>Arrangements for Provision of Information to the Emergency Services of Other</u> <u>Municipalities</u>

The provision of information to other municipalities is to be coordinated by the Emergency Services Unified Command Structure, as described in Table 3 – "Emergency Roles and Their Respective Responsibilities" of the ERPP.

### 8.4.7 <u>Public Notification or Alerting System</u>

The public notification system in the ERPP consists of verbal notification. Door-to-door notification may also be used, as determined by the Emergency Services Unified Command Structure, depending on the nature and scope of the incident.

### 8.4.8 Offsite Assistance Coordination with Municipal Evacuation Requirements

The provision for offsite assistance for an evacuation is to be coordinated through the Internal Response Manager as described in Table 3 – "Emergency Roles and Their Respective Responsibilities" of the ERPP, in consultation with the Emergency Services Unified Command Structure so that assistance, if required, matches the municipal evacuation plan.

### 8.4.9 Internal and External Evacuation Plans

Internal evacuation plans are described in Figure 3 – "Activation and Notification Flow Chart", on page 29 of the ERPP as well as in the step-by-step procedure on pages 30 and 31 of the ERPP.

External evacuation plans are situation specific and have not been included in the ERPP. Evacuation of external locations cannot be pre-determined, and should be assessed by the Emergency Services Unified Command Structure based on conditions at the time of the incident.

# 8.4.10 Reception Information, Transportation, Evacuation Facilities, and Responsibilities for Coordinating Affected People

The internal evacuation plan specifies that the Evacuation Warden is to coordinate the evacuation, on foot, to one of the two pre-designated muster areas, as described in Table 3 – "Emergency Roles and Their Respective Responsibilities" of the ERPP. At most times, the facility will be occupied by only a single bulk truck driver, who will be the Evacuation Warden, and there will be no other personnel to evacuate.

External evacuation, if recommended by the Emergency Services Unified Command Structure, the municipal Emergency Response Plan may be activated. Evacuation may include shelter in place.

### 8.5 First Responders

### 8.5.1 Municipal Fire Fighting

The municipal fire department responsible for the Budget Propane MacTier facility is the Township of Georgian Bay Fire Department. The fire department operates out of three stations located in Honey Harbour, MacTier and Port Severn.

The fire station closest to the MacTier propane filling plant is Station #2, located approximately 5 km to the north at:

16 Muskoka Road MacTier, Ontario

The Township of Georgian Bay Fire Department consists of 1 Fire Chief, 1 Deputy Chief, and 42 volunteer suppression personnel. The predetermined automatic dispatch to a confirmed emergency at the MacTier filling plant consists of 3 pumpers and 3 tankers, with a total water capacity of approximately 26,034 litres. The approximate first response time to the propane filling plant is 20 minutes, with a full complement of crews available in approximately 40 minutes.

The closest approved water supply is located approximately 3 km from the propane filling plant, with a maximum pump capacity of approximately 750 litres per minute ("LPM").

Budget Propane will also be installing a Female 6" NHT 90 Deg dry hydrant onsite for fire suppression. The dry hydrant will be located north of the firewater pond as shown in Drawing 24122-SK-001 included in Appendix B. The firewater pond has a nominal volume of 500 m³, or 130,000 USWG.

The fire department has obtained NFPA 1072 Operations level of training.

### 8.5.2 <u>Emergency Medical Services</u>

Emergency Medical Services for the Township of Georgian Bay is provided by the Muskoka Paramedic Services. The paramedic service operates from five stations located throughout the District Municipality of Muskoka. The station nearest to the MacTier facility is located at:

405 High Street MacTier, Ontario

The hospital closest to the Budget Propane MacTier facility is the South Muskoka Memorial Hospital, located approximately 46 km east of the facility.

### 8.5.3 <u>Municipal Emergency Response Plan</u>

The Township of Georgian Bay has an Emergency Plan as required under the *Emergency Management and Civil Protection Act, R.S.O 1990*. The plan developed by the Township of Georgian Bay is designed to:

"...make provision for the extraordinary arrangements and measures that may have to be taken to protect the health, safety, welfare and property of the residents, businesses and visitors of the Township of Georgian Bay from the effects of an emergency."

The Emergency Plan provides key officials, agencies and departments within the Township of Georgian Bay emergency response information including arrangements, services and equipment, resource management, roles and responsibilities during an emergency, and hazard-specific response plans.

The Township of Georgian Bay has a primary Emergency Operations Centre ("EOC") that can be activated for an emergency to maintain services to the community and to support the emergency site. When warning of an emergency has been received by a member of the Community Control Group ("CCG"), the member may request that the Chief Administrative Officer ("CAO") initiates the Emergency Response Plan. The contact information of the CCG members is provided in Emergency Response Plan.

The primary location of the EOC is:

Fire Administration Building 99 Lone Pine Road Port Severn, Ontario

A secondary location is determined by the CAO in conjunction with the Community Emergency Management Coordinator based on the nature and location of the emergency.

# Hazard Distance = 961 m 961 m Silver Sands Lake Road

(Google Earth; imagery 2024)

### GPS co-ordinates:

596,791 m Easting, 4,995,900 m Northing, Zone 17T

### Municipalities within the Hazard Distance:

Township of Georgian Bay (Lower Tier) District of Muskoka (Upper Tier)

### Municipal Officials:

Karen Way, Director of Corporate Services/Clerk Township of Georgian Bay 99 Lone Pine Road Port Severn, Ontario L0K 1S0

Amy Back, District Clerk District of Muskoka 70 Pine Street Bracebridge, Ontario P1L 1N3

### Facility Municipal Address:

15 Silver Sands Lake Road MacTier, Ontario

### Facility Legal Description:

Part of Lot 5,
Concession 4,
Township of Freeman,
now in the Township of Georgian Bay
District Municipality of Muskoka

### **Largest Vessel Setback From Property Lines**



(Google Earth; imagery 2024)



### PROJECT:

Level 2 Risk and Safety Management Plan, Budget Propane Corporation, 15 Silver Sands Lake Road, MacTier (Township of Georgian Bay), Ontario

### TITLE:

Supplementary Drawing for TSSA Advisory FS-162-09

200	PROJECT No: 24122	REV: 00	SHEET 1 OF 1	DRAWN BY: RD
	DATE: July 17, 2025	SCALE: N.T.S.	DWG No: 24122-	-SK-003

# Emergency Response and Preparedness Plan Budget Propane Corporation 15 Silver Sands Lake Road MacTier, Ontario

Prepared by:

Budget Propane Corporation 1011 Beiers Road, RR #1 Gravenhurst, Ontario P1P 0C7

Last Revised on: July 18, 2025

### **List of Revisions**

Date	Revision	Authorized Reviser	Authorization
January 20, 2016 (prepared for fire service comments)	initial release	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	
April 28, 2016	<ul> <li>updated site plan</li> <li>relocated primary evacuation area</li> <li>updated contact information</li> </ul>	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	
November 15, 2017	<ul><li>updated Table 1</li><li>updated Table 2</li><li>updated Table 10</li></ul>	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	
November 6, 2018	<ul><li>updated Figure 1</li><li>updated Table 4</li></ul>	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	
November 11, 2019	general E2     revisions     updated site plan	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	
November 12, 2020	<ul><li>updated Table 4</li><li>updated site plan</li><li>general revisions</li></ul>	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	
November 9, 2021	<ul><li>updated Table 1</li><li>updated Table 4</li><li>general revisions</li></ul>	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	
November 11, 2022	<ul><li>updated Table 4</li><li>general revisions</li></ul>	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	
November 6, 2023	<ul><li>updated Table 4</li><li>updated site plan</li><li>general revisions</li></ul>	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	
November 14, 2024	<ul><li>updated Table 4</li><li>updated site plan</li></ul>	Robert Wilson (Stirling Engineering Inc.) Authorized by James Callow	

### List of Revisions (cont.)

Date	Revision	Authorized Reviser	Authorization
July 18, 2025	<ul> <li>issued with modification RSMP</li> <li>updated quantity of bulk tanks</li> <li>E2 revisions</li> <li>reformatting</li> </ul>	Brian Musselman (BGM Engineering Ltd.) Authorized by James Callow	

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Last Updated: July 18, 2025

Appendix B: Site Plan and Muster Areas

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### 1.0 INTRODUCTION

The health and safety of its employees, the public, and protection of the environment are integral to Budget Propane Corporation's business. To protect these interests, Budget Propane Corporation ("Budget Propane") has developed this Emergency Response and Preparedness Plan ("ERPP").

### 1.1 Purpose

This ERPP is designed to help prevent, manage, and mitigate emergencies involving propane at the Budget Propane MacTier facility. It is intended to protect the public, property and environment from the consequences of a propane emergency. This ERPP has been developed to comply with applicable provisions of several provincial and federal statutes.

### 1.1.1 Ontario Regulation 211/01

This document has been developed primarily to comply with the applicable provisions of Ontario Regulation 211/01, "Propane Storage and Handling" under the Technical Standards and Safety Act pertaining to Risk and Safety Management Plans ("RSMP"). Ontario Regulation 211/01, "Propane Storage and Handling" requires all propane retail outlets, filling plants, cardlock/keylock, private outlets, and container refill centres to develop and submit an Emergency Response and Preparedness Plan as part of a Risk and Safety Management Plan. This ERPP has been developed to meet the applicable provisions of Ontario Regulation 211/01 for RSMPs.

### 1.1.2 <u>Environmental Emergency Regulations</u>

Under the *Environmental Emergency Regulations* of the *Canadian Environmental Protection Act, 1999*, propane installations having an individual storage container system equal to or greater than 4.5 metric tonnes (approximately 2,345 United States Water Gallons ("USWG")) must prepare an Environmental Emergency ("E2") Plan and submit the required Schedules to Environment Canada.

This ERPP has also been prepared to comply with the applicable provisions of the *Environmental Emergency Regulations* under the *Canadian Environmental Protection Act* pertaining to Environmental Emergency Plans for propane emergencies.

### 1.1.3 <u>Transportation of Dangerous Goods Regulations</u>

The federal *Transportation of Dangerous Goods Regulations* requires every transporter, importer or consignor of propane to have an approved Emergency Response and Assistance Plan ("ERAP") if propane is contained in one or more means of containment, at least one of which has a storage capacity in excess of the ERAP threshold.

Budget Propane currently has approval for ERAP #2-0010-328, which has been registered, reviewed and accepted by Transport Canada.

### 1.1.4 <u>CSA-Z731-03 (R2014): Emergency Preparedness and Response</u>

Budget Propane has further designed this ERPP to meet applicable clauses of the voluntary standard, CSA-Z731-03 (R2014) *Emergency Preparedness and Response*. The standard is directed towards the development of tools and systems to support emergency preparedness and response in industry. This ERPP meets the applicable clauses set out by CSA-Z731-03 (R2014) for "Emergency Response Plans".

### 1.2 Scope and Limitations

This ERPP has been developed for propane emergencies only, including fires at the Budget Propane bulk propane plant in MacTier, Ontario. Coverage includes the general public surrounding the facility that may be affected by the consequences of a propane emergency occurring at the facility. This document is designed to address propane emergencies such as propane releases and onsite fires. Although this ERPP has been developed for propane emergencies, it provides no guarantee for the successful mitigation of all propane emergencies at Budget Propane.

### 1.3 Review and Update of the ERPP

This ERPP shall be updated as required to provide current propane emergency mitigation measures and to take into account any changes at the facility. Only a Program Coordinator listed in the table below may make changes to this ERPP.

**Table 1: Authorized Persons as Program Coordinator** 

Position	Name
President	James Callow
Engineering Manager	Doug Crichton, P.Eng

Review of this ERPP will be performed at least annually, and subject to the following:

- 1. the company staffing structure changes;
- 2. there is a change or modification to the propane distribution systems;
- 3. following any activation of the ERPP; and
- 4. upon demand from the local Fire Department.

### 1.4 Distribution and Location of the ERPP

This ERPP has been distributed to internal and external parties listed in Table 2. When updated, any changes to the ERPP must be forwarded to the persons or organizations authorized to have a copy. This ERPP is site specific to the Budget Propane MacTier facility and its location(s) at the facility is included in Table 2. Employees taking on roles in this ERPP acknowledge receipt and understanding of all sections of the ERPP and are aware of its onsite location(s) by signing the Distribution Form.

Table 2: Distributed Copies of the ERPP and their Locations

Number of ERPP Copies	Location	Contact
electronic	Township of Georgian Bay Fire Department 99 Lone Pine Road Port Severn, Ontario	Fire Chief Tony Van Dam (705) 538-2337 ext. 248 tvandam@gbtownship.ca
Budget Propane Gravenhurst - Head O 1011 Beiers Road, RF Gravenhurst, Ontari		James Callow, President Office: (705) 687-5608 james@budgetpropane.net
1	Budget Propane MacTier Electrical Shed	James Callow

### 2.0 DEFINITIONS AND ABBREVIATIONS

- Accidental Release: Unplanned discharge, emission, explosion, outgassing or other escape of propane.
- **ASME**: American Society of Mechanical Engineers
- BLEVE: Boiling Liquid Expanding Vapour Explosion
- CANUTEC: Canadian Transport Emergency Centre of the Department of Transport
- CPA: Canadian Propane Association
- CSA: Canadian Standards Association
- **ECCC**: Environment and Climate Change Canada
- **Emergency Response Personnel**: All parties described herein under "Roles and Responsibilities" and any other personnel who may be appointed by authorities to participate in emergency response actions.
- EMS: emergency medical services
- **ERAC**: Emergency Response Assistance Canada; entity which administers and implements the ERAP.
- **ERAC Response Centre, ERAP Emergency Number**: Phone number to activate the ERAP, 1-800-265-0212.
- **ERAP**: Emergency Response and Assistance Plan, under the *Transportation of Dangerous Goods Regulations*
- **ERPP**: Emergency Response and Preparedness Plan
- **LEL**: lower explosive limit
- LPG: Liquefied Petroleum Gas
- Major Release: Any sustained accidental release characterized by the rapid uncontrolled release of propane (e.g. a line break). These releases are characterized by the formation of fog and loud noises and may pose a threat to public safety. Sources for these releases include, but are not limited to, failed valves, fittings, piping.
- Minor Release: May be defined as a slow controlled release of propane (e.g. an improperly closed valve). These releases are characterized by a persistent smell of mercaptan, observation of frost patches forming on equipment, or a "hissing" noise. Finding the source may require the use of a leak detection fluid or gas detector.
- Muster Area: Designated assembly point during a propane emergency evacuation.
- **Propane Emergency**: Any emergency involving propane related hazards covered by this ERPP, including fires.
- RSMP: Risk and Safety Management Plan, under Ontario Regulation 211/01
- SAC: Spills Action Centre
- **SDS**: safety data sheet
- TDG: Transportation of Dangerous Goods
- TSSA: Technical Standards and Safety Authority
- **UEL**: upper explosive limit
- **USWG**: United States Water Gallon, a measure of volume
- VCE: Vapour Cloud Explosion
- WHMIS: Workplace Hazardous Materials Information System

### 3.0 ROLES AND RESPONSIBILITIES

This ERPP specifies the scope of the participants' activities before and during a propane emergency. Their roles and responsibilities are defined in this section, which details what onsite actions are expected of them. An organization chart has been provided below to facilitate decision making and condenses the information provided by this section.

The following organization chart displays the command structure which is the system designed for the response to a propane emergency at Budget Propane. The Internal Response Manager and Operations Lead will be under the direction of one or more parties within the external Emergency Services Unified Command Structure.

If personnel from Emergency Response Assistance Canada ("ERAC") have arrived onsite, they may assume the roles of "Operations Lead" and "Company Operations Team," as appropriate. Remedial Measures Advisors and/or Response Team Leads may assume the role of Operations Lead, while Response Team Members will perform the duties of the Company Operations Team.

**Emergency Services Unified Command Structure ERAC** Response **Operations** Internal Response Manager CANUTEC Centre Lead Alternate Internal Company Response Manager **Operations** Team **ERAC** Site Employees Evacuation Company Responders Warden Management Contractors, and Visitors Incident Program Company Coordinator Discoverer Spokesperson Legend: Default Reporting Structure **Optional Reporting** Structure Non-Company Personnel Command and Command Staff Operations Planning Logistics Finance and Administration

**Figure 1: Incident Command Organization Chart** 

Last Updated: July 18, 2025

Prepared By: Budget Propane Corporation

**Table 3: Emergency Roles and Their Respective Responsibilities** 

Position	Preparedness	Response
Emergency Services Unified Command Structure	As required	As required
Company Management	<ul> <li>Designate the following roles to employees of the company:         <ul> <li>Company Spokesperson</li> <li>Program Coordinator;</li> <li>Internal Response Manager;</li> <li>Evacuation Warden;</li> <li>Alternate Internal Response Manager, as required;</li> <li>Operations Lead, as required; and</li> <li>Company Operations Team, as required.</li> </ul> </li> <li>Provide appropriate training to all employees taking on the roles listed above.</li> </ul>	<ul> <li>Report to the Alternate Internal Response Manager.</li> <li>Approve public statements issued to the public by the Company Spokesperson on behalf of Budget Propane.</li> <li>Attend internal debriefing.</li> <li>Advise the Alternate Internal Response Manager if capable and requested to do so.</li> <li>Approve any funds needed for propane emergency operations as requested by the company's Finance Personnel.</li> <li>Ensure all reporting to regulatory authorities is completed.</li> </ul>
Company Spokesperson	<ul> <li>Know Budget Propane policies and mandate.</li> <li>Know Budget Propane products and services.</li> <li>Complete media training.</li> </ul>	<ul> <li>Report to the Company Management.</li> <li>Can act as onsite media spokesperson.</li> <li>Issue public statements on behalf of Budget Propane.</li> <li>Consult with Emergency Services Unified Command Structure prior to ALL media releases.</li> <li>ONLY under the approval of the Emergency Services Unified Command Structure, or municipal authorities:         <ul> <li>receive public inquiries and concerns and communicate information to the public;</li> <li>provide the media and public with details related to the propane emergency;</li> <li>communicate the end of the public; and</li> <li>simplify technical information when addressing the general public.</li> </ul> </li> </ul>

Position	Preparedness	Response
Program Coordinator	<ul> <li>Develop and maintain this ERPP.</li> <li>Consult with local representatives (internal and external) from various technical backgrounds (fire, municipal emergency authority, CPA) in developing the ERPP.</li> <li>Be the only authorized person to make changes to the ERPP and ensure that all copies are current.</li> <li>Ensure all employees and personnel in the ERPP are familiar with the Plan and their expected roles.</li> <li>Responsible for the distribution and tracking of the ERPP and forwarding any Plan updates to Plan holders as required.</li> <li>Maintain and retain all records associated with this ERPP.</li> <li>Verify and update internal and external emergency contacts as necessary.</li> <li>Verify the inventory of emergency equipment and resources onsite against the list provided in this ERPP.</li> <li>Inspect the emergency equipment and resources.</li> <li>File a written report regarding an emergency with ECCC as soon as possible.</li> </ul>	Report to the Company Management as required.

Position	Preparedness	Response
Internal Response Manager	<ul> <li>Have a current copy of this ERPP.</li> <li>Be competent with this ERPP.</li> <li>Be capable of mobilization and departure for a propane emergency within 1 hour, if practical, of being notified of such an emergency.</li> </ul>	<ul> <li>Report to the Emergency Services Unified Command Structure.</li> <li>Direct the Alternate Internal Response Manager.</li> <li>Be capable of providing a continuous response on a 24-hour day basis.</li> <li>Travel to the location of the propane emergency if not already at site.</li> <li>Serve as a liaison between the Emergency Services Unified Command Structure, Alternate Internal Response Manager and Company Management.</li> <li>Consult with the ERAC Response Centre continuously during a propane emergency and arrange requests for additional resources with the Emergency Services Unified Command Structure as needed.</li> <li>Consult with the Emergency Services Unified Command Structure and provide advice regarding risks and appropriate steps to be taken at the emergency site to preserve public safety (i.e. advise on evacuation distances, if necessary).</li> <li>Ensure that further transportation of LPG from the propane emergency site is done in a safe and legal manner.</li> <li>Complete and submit a written ERPP debriefing report on the emergency within five days.</li> <li>Attend regular meetings with the Emergency Services Unified Command Structure and other Directors as scheduled by the Emergency Services Unified Command Structure.</li> <li>Attend the debriefing meetings.</li> </ul>

Position	Preparedness	Response
ERAC Response Centre		<ul> <li>Answers calls to the 24-Hour Emergency Number 1 (800) 265-0212.</li> <li>Maintain regular communications with the Internal Response Manager or alternate as warranted.</li> <li>Acquire additional resource people or equipment as necessary.</li> <li>Upon completion of the propane emergency, call all parties to close all reporting loops (including standby resources).</li> </ul>
Alternate Internal Response Manager	<ul> <li>Have a current copy of this ERPP.</li> <li>Be competent with this ERPP.</li> <li>Provide technical support to the Program Coordinator for the selection and maintenance of emergency equipment inventory.</li> </ul>	<ul> <li>Report to the Internal Response Manager.</li> <li>Follow the instructions of the Internal Response Manager.</li> <li>Debrief and obtain any information from the person who initially discovered the emergency.</li> <li>Assure the Emergency Services Unified Command Structure that the company is prepared to provide assistance with the propane emergency.</li> <li>Assure the Emergency Services Unified Command Structure of their technical expertise in propane and familiarity with company equipment and procedures.</li> <li>Attend internal debriefing meetings.</li> <li>Record event milestones.</li> </ul>

Position	Preparedness	Response
Evacuation Warden	<ul> <li>Have a current copy of this ERPP and know its contents.</li> <li>Maintain facility sign-in/signout sheet.</li> <li>Know the location of the muster areas.</li> <li>Understand the criteria for muster area selection during an emergency.</li> </ul>	<ul> <li>Receive notification of a propane emergency from the person discovering it.</li> <li>Check the wind direction and accordingly select the appropriate muster area from the defined locations.</li> <li>Issue a call for evacuation, and communicate muster area selection to onsite personnel.</li> <li>Obtain the sign-in/sign-out sheet and employee list.</li> <li>Proceed to the appropriate muster area and designate an individual to call 911, the ERAC Response Centre, CANUTEC, Spills Action Centre (SAC), TSSA, and Ontario Ministry of Labour as required (See Section 6.0).</li> <li>Verify attendance against the facility sign-in/sign-out sheet and employee list to ensure all personnel have collected in the muster area.</li> <li>Report results of attendance and the evacuation status to the Alternate Internal Response Manager.</li> </ul>
Employees, Contractors, and Visitors	Be familiar with the evacuation areas, and evacuation procedure outlined in this ERPP.	<ul> <li>Receive the call for evacuation from the Evacuation Warden.</li> <li>Follow the evacuation procedure outlined in this ERPP.</li> </ul>

Position	Preparedness	Response
Operations Lead (ERAC personnel)	<ul> <li>Know the command structure as presented in this ERPP.</li> <li>Be competent in the use of all emergency response equipment and emergency response procedures.</li> <li>Be aware of the locations of emergency equipment onsite.</li> </ul>	<ul> <li>Report to the Emergency Services         Unified Command Structure.</li> <li>Act as liaison between Emergency         Services Unified Command         Structure and the Company         Operations Team.</li> <li>Direct mitigation actions of Company         Operations Team as instructed by         the Emergency Services Unified         Command Structure.</li> <li>Assist Company Operations Team         with mitigation actions.</li> <li>Request permission from Company         Management to obtain additional         resources that require additional         funding.</li> </ul>
Company Operations Team (ERAC personnel)	<ul> <li>Know the command structure as presented in this ERPP.</li> <li>Be competent in the use of all emergency response equipment and emergency response procedures.</li> <li>Be aware of the locations of emergency equipment onsite.</li> </ul>	<ul> <li>Follow instructions of Operations Lead.</li> <li>Perform mitigation actions (e.g. emergency transfers, monitoring, isolate releases) as instructed.</li> </ul>

### 3.1 Emergency Contacts

Lists for internal and external emergency contacts have been compiled and provided in the following two tables.

Table 4: Internal Emergency Contacts at Budget Propane MacTier

ERPP Role	Name	Contact Information	
Company Management		Office Phone: (705) 687-5608	
Company Spokesperson	James Callow President	Cell Phone:	
Program Coordinator		Alternate/Home Phone:	
Internal Response	Fresident		
Manager		Email: james@budgetpropane.net	
Company Management		Office Phone: (705) 687-5608	
Company Spokesperson	Gary Clark	Cell Phone:	
Internal Response	Manager of Operations	Alternate/Home Phone:	
Manager & Alternate	Wanager or operations		
Operations Lead		Email: gary@budgetpropane.net	
Program Coordinator		Office Phone: (705) 687-5608	
Internal Response		Cell Phone:	
Manager & Alternate	Doug Crichton, P.Eng.	Alternate/Home Phone:	
Operations Lead Operations Team	Engineering Manager	Email: dougc@budgetpropane.net	
Evacuation Warden			
Internal Response		Office Phone: (705) 687-5608	
Manager & Alternate	Cory Kelly Health & Safety Manager	Cell Phone:	
Operations Lead		Alternate/Home Phone:	
Operations Team		Email: ckelly@budgetpropane.net	
		Office Phone: (705) 687-5608	
Operations Lead	Jenn Russ	Cell Phone:	
Operations Team	Dispatch Manager	Alternate/Home Phone:	
		Email:	
		Office Phone: (705) 687-5608	
	Ray Zylstra	Cell Phone:	
Operations Team	Service Technician	Alternate/Home Phone:	
		Email:	
a	Employee on site:	Office Phone: (705) 687-5608	
Operations Team	Bulk Truck Driver or Service Technician	Cell Phone:	
Evacuation Warden		Alternate/Home Phone:	
		Email:	
		Office Phone:	
Employees, Contractors	Employees, Contractors	Cell Phone:	
and Visitors	and Visitors	Alternate/Home Phone:	
		Email:	

**Table 5: External Emergency Contacts** 

Organization	Description of Resource	Contact Information
Fire, Medical, Police	Emergency Services	911
ERAC Response Centre	ERAP Number (Plan #2-0010- 328)	1 (800) 265-0212
Spills Action Centre	Ontario Ministry of the Environment – Spill Reporting	1 (800) 268-6060
CANUTEC	Canadian Transport Emergency Centre	(613) 996-6666
Environment and Climate Change Canada	Written Spill Reporting	https://ec.ss.ec.gc.ca/en/cs
TSSA	Regulatory Body – Fuel Safety	1 (877) 682-8772
Ontario Ministry of Labour	Health & Safety Contact Centre	1 (877) 202-0008
WSIB	Workplace Safety and Insurance Board	1 (800) 387-0750
Hydro One	Electrical Utility	1 (800) 434-1235
Police - OPP West Parry Sound Detachment	Emergency Services	(705) 746-4225
Township of Georgian Bay Fire Department	Emergency Services	(705) 538-2765
Township of Georgian Bay	Local Government	(705) 538-2337
Ambulance Base - MacTier	Emergency Services	(705) 375-0261
Recreation, Facilities and Road Maintenance - Township of Georgian Bay	Traffic Control	(705) 538-2337 x225
District of Muskoka	Local Government	(705) 645-2231
Roads Department - District of Muskoka	Traffic Control	(705) 645-6764
Muskoka Gas and Restaurant	Location of Primary Muster Area	(705) 375-2963
V. MacLeod - 33 Silver Sands Lake Road	Location of Secondary Muster Area	(705) 375-1686

All the resources/contacts identified above have been advised of their inclusion and responsibilities as parties of this ERPP if required.

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### Regulatory reporting requirements include:

- for all accidental spills (both minor <u>and</u> major releases), the Spills Action Centre ("SAC") must be notified;
  - reporting to the SAC meets the reporting requirements for both the Ontario Ministry of the Environment and for the Technical Standards and Safety Authority ("TSSA")
  - reporting to the SAC also meets the verbal reporting requirements for Environment and Climate Change Canada ("ECCC"), however a separate written report must still be submitted to ECCC as soon as is reasonably possible after the incident
  - for major releases SAC must be notified immediately, and for minor releases where no injury has occurred SAC must be notified within two weeks of the incident
- reporting an emergency involving dangerous goods to the police will satisfy immediate reporting requirements for Transport Canada, however any accidental release from a cylinder which has suffered a catastrophic failure must also be reported to the Canadian Transport Emergency Centre ("CANUTEC");
- any incident that causes critical injury or death must be reported immediately to the Ministry of Labour and a written notice which must be provided within 48 hours; and
- any workplace injury must be reported to the WSIB within 3 days of incidence.

### 4.0 TECHNICAL INFORMATION

### 4.1 Hazard Identification

Propane is a flammable gas that is stored and handled in a compressed liquid form. Propane is not considered a toxic substance and impacts to the environment are limited to the hazards identified in the following subsections.

### 4.1.1 Compressed Gas

Propane is stored in its liquid form and can expand 270 times its size when converted to the gas phase. The proper shipping name of propane is Liquefied Petroleum Gas ("LPG") and the Transportation of Dangerous Goods ("TDG") placard for LPG in large means of containment is illustrated below in Figure 2. The placard shows that LPG is a Class 2 flammable gas with a UN (United Nations) Number of 1075.

Figure 2: TDG Placard for Liquefied Petroleum Gas (LPG)



### 4.1.2 Flammable

Propane is regarded as a fire hazard since it can flash at temperatures as low as -104°C (-155.2°F), with an ignition source. At ambient conditions, the lower and upper explosive limits (LEL and UEL) of propane are 2.1% and 9.5%, respectively.

### 4.1.3 Frost Bite

Due to the significant drop in temperature when expanding from liquid to vapour phase, propane can cause frostbite on contact with skin and is capable of causing severe damage on contact with the eyes.

### 4.1.4 <u>Asphyxiant</u>

In the gas form, propane can act as an asphyxiant by displacing oxygen but otherwise is non-corrosive, non-toxic and non-irritating to the eyes. Propane vapours are also heavier than air and will seek low lying areas.

For additional physical and chemical characteristics of propane, consult the safety data sheet ("SDS") provided in Appendix A.

### 4.2 Risks to Public

Typical hazards at a propane facility may pose a threat to public safety, property and the environment. Such events can occur due to human activities (i.e. operator/driver error) or equipment failure and those addressed by this ERPP have been identified as follows:

- accidental releases of propane; and
- fires.

### 4.2.1 Reasonable Worst-Case Scenario

A reasonable worst-case scenario for a propane facility would consist of a fire at a bulk tank leading to a Boiling Liquid Expanding Vapour Explosion ("BLEVE"). Such an event includes rupture of the pressure vessel, resulting in an explosion with a shockwave that can propel tank fragments, and a fireball. The fireball radius for the facility is shown in Appendix B.

### 4.2.2 <u>Vapour Cloud Regime</u>

The environmental emergency that would impact offsite property and is more likely to occur than a BLEVE would be a liquid propane release between 0.25" and 1" diameter equivalent, leading to a Vapour Cloud Explosion ("VCE"), a jet fire and then possibly a BLEVE. It should be noted that this environmental emergency has been calculated to have a probability of less than 1 in 100,000 years.

A VCE can affect a large area surrounding a propane release. The following addresses the size of a vapour cloud. For the purposes of consequence analysis, the regime of a vapour cloud is considered to be the duration and dimensions of a vapour cloud. Potential for ignition of the vapour cloud in this analysis is considered to be within the region of the vapour cloud that has a concentration greater than or equal to half of the lower explosive limit of propane ("LEL"), or approximately 1.05% by volume. A conservative estimate of the possible flash fire region can be considered using the same half LEL concentration.

The regime of a vapour cloud release is controlled by several factors. The most important factors are:

- leak size;
- initial bulk tank contents;
- terrain roughness; and
- weather conditions.

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The difference between vapour cloud duration and dimensions can be large depending on the above factors. Examples of variations in the regime are described below and were calculated using EFFECTS software.

The calculated vapour cloud dimensions for an initially 55% full bulk tank system from a 0.25" diameter leak are 6 m in length (downwind distance from release point) by 2 m in width (crosswind) distance from release point). Increasing the size of the leak to 3" will

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increase the modelled dimensions to 489 m in length and 315 m in width, under winter conditions.

The calculated propane release duration time for an initially 55% full bulk tank system (4 x 30,000 USWG bulk storage tanks) from a 0.25" diameter leak is approximately 129 hours under winter conditions. Increasing the initial fill percentage to 85% with the same 0.25" diameter leak will increase the release duration to approximately 199 hours. Increasing the size of the leak to 3" will reduce the release time to approximately 1 hour from an initially 55% full tank system and under winter conditions.

The vapour cloud size dimensions are the steady state dimensions that are reached after approximately one to five minutes, depending on the regime of the cloud. Steady state conditions are reached when the dispersion of the cloud is in equilibrium with the amount of propane flowing through the leak. Because the amount of propane flowing through the leak is only marginally affected by the initial percentage fill of the bulk tank, the steady state dimensions of the vapour cloud are not considered to be affected by the contents of the bulk tanks. The duration is the only factor that is considerably affected by the contents of the bulk tank.

The terrain roughness can be described by roughness factors of "R1", "R2", and "R3". Open areas correspond to a relatively low degree of surface roughness, characterized as a factor of "R1". Areas consisting of brush and shrubs correspond to a relatively moderate degree of surface roughness, characterized as a factor of "R2". Larger treed areas or buildings correspond to a relatively high degree of surface roughness, characterized as a factor of "R3". The difference between a roughness factor of R1 and R3 can change the vapour cloud dimensions of a modelled 3" diameter leak, in summer conditions, from 296 m in length and 75 m in width, to 172 m in length and 66 m in width. An increase in roughness decreases the dispersion of the vapour cloud, decreasing its overall dimensions.

Two weather conditions were considered to affect the dimensions of a vapour cloud during a release: the temperature and wind conditions. An increase in temperature will increase dispersion, decreasing the size of the vapour cloud; however, this effect is minimal. An increase in wind will increase dispersion and has a much greater effect of decreasing the size of the vapour cloud. Temperature conditions are described in degrees Celsius and wind conditions are described using Pasquill atmospheric stability classes. The "Pasquill Atmospheric Stability Class" system uses letters to denote the stability of the atmosphere. The letters "A" through "F" are used with "A" being very unstable and "F" being stable. Calculated vapour cloud dimensions between weather conditions of atmospheric stability of F and a temperature of -10°C, and atmospheric stability of D and a temperature of 23°C can range from 489 m in length and 315 m in width to 296 m in length and 75 m in width.

Table 6 is given as a quick reference tool to determine the duration, length, and width of a cloud from a release from the bulk tank system. Variables considered include:

- leak sizes of 0.25", 1", 2", and 3";
- initial bulk tank content percentages of 55%, 70% and 85%;
- terrain roughness factors of R1, R2, and R3;

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• winter conditions of atmospheric stability of F and a temperature of -10°C, and summer conditions of atmospheric stability of D and a temperature of 23°C.

It should be noted that vapour cloud dimensions are independent of the initial fill percentage.

Appendix C gives a simplified version of this table using the most conservative terrain roughness factor which is suitable for quick reference.

Table 6: Vapour Cloud Regime Chart - 4 x 30,000 USWG

						Leak Size (Appı	oximate Diamete	r)		
		İ	0.2	5"	(1") 2"				3"	
				•		Weathe	r Condition		•	
Initial Bulk Tank Contents (%fill)			Winter (-10°C)	Summer (23°C)	(-10°C)	Summer (23°C)	Winter (-10°C)	Summer (23°C)	Winter (-10°C)	Summer (23°C)
(10111)	Duration (hrs)		129	126	9	8	2	2	1	1
	Terrain Roughness	Vapour Cloud Dimensions								
		Length	6	15	105	87	282	188	489	296
55%	R1	Width	1	2	56	17	173	43	215	75
0070		Length	10	12	78	63	202	138	349	217
	R2	Width	5	2	53	15	149	38	268	66
		Length	9	8	57	48	151	108	265	172
	R3	Width	6	2	51	16	138	39	241	66
	Dura	tion (hrs)	161	139	_(10)	9	3	2	1	1
	Terrain Roughness	Vapour Cloud Dimensions								
700/		Length	6	15	105	87	282	188	489	296
70%	R1	Width	2	2	56	17	173	43	215	75
$\bigcirc$	R2	Length	10	12	78	63	202	138	349	217
		Width	5	2	53	15	149	38	268	66
	R3	Length	9	8	57	48	151	108	265	172
		Width	6	2	51	16	138	39	241	66
	Dura	tion (hrs)	199	150	12	10	3	3	2	1
	Terrain Roughness	Vapour Cloud Dimensions								
85%		Length	6	15	105	87	282	188	489	296
	R1	Width	2	2	56	17	173	43	215	75
		Length	10	12	78	63	202	138	349	217
	R2	Width	5	2	53	15	149	38	268	66
	R3	Length	9	8	57	48	151	108	265	172
	KS	Width	6	2	51	16	138	39	241	66

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How to use this table:

There are four variables to select on this table: leak size, weather condition, initial bulk tank contents, and terrain roughness. These variables will determine the calculated leak duration, vapour cloud length, and vapour cloud width. An example is shown for the use of this table with the factors of a 1", winter release, initially 70% full bulk tank system, and a terrain roughness of 2.

### 5.0 FACILITY INFORMATION

The Budget Propane MacTier facility is located at 15 Silver Sands Lake Road in MacTier (Township of Georgian Bay), Ontario and has a total fixed storage capacity of 120,000 USWG of propane. Operations at the facility include the bulk storage of propane and the transfer of propane to and from bulk trucks. The maximum expected quantity of propane stored at the MacTier facility at any time during a calendar year is 140,000 USWG. The largest propane bulk tank at the facility has a storage capacity of 30,000 USWG.

Other combustible and flammable liquids stored at the facility include methanol and diesel. The diesel is stored in a 2,700 L capacity aboveground tank and is used to fuel Budget Propane bulk delivery trucks. There are also two (2) 1,000 USWG aboveground propane tanks used to fuel the standby generators.

The Budget Propane MacTier facility is an unmanned bulk plant, and all gates are locked when personnel is not onsite. There is a lock box located on the primary sliding gate for fire service access in an emergency.

A site plan has been included in Appendix B. This document includes the location of the bulk tank system as well as locations of access and egress routes to the facility, emergency equipment, emergency stops, fire routes and onsite fire suppression equipment. Also included in Appendix B is an overhead view of the facility illustrating the muster areas outside the fireball radius.

### 5.1 Emergency Stop Equipment

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In the event of an emergency, emergency stop buttons can be used to stop the flow of propane. Power can also be isolated from the breaker panel located onsite. The location of the emergency stop buttons and breaker panel at the facility are shown in the site plan provided in Appendix B.

### 5.2 Emergency Equipment and Resources

For small scale emergencies, or to provide interim emergency assistance, Budget Propane maintains emergency response equipment in their bulk trucks as listed in Table 7.

**Table 7: Budget Propane Emergency Equipment** 

Quantity	Description of Resource	Location
1	Adapter, filler hose (safety back check 11/4" Acme)	Bulk Truck
1	Gloves, protective coated	Bulk Truck
1	Flashlight, sparkless, non-submersible, electrically classified Class 1 Division 1	Bulk Truck
1	Hammer, sparkless	Bulk Truck
1	Wrench for pipes, minimum 18", sparkless	Bulk Truck

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For larger incidents requiring an emergency response, Budget Propane may request assistance from ERAC. Depending on the nature of the emergency, ERAC may dispatch a Remedial Measures Advisor and/or a Response Team. These responders may bring to the emergency equipment listed in Table 8 and Table 9, as stated in the ERAP #2-0010-328 document.

**Table 8: ERAC Remedial Measures Advisor Equipment Standard** 

Quantity	Description of Resource
1	Hand-held flashlight (Class 1, Groups C & D, CSA or ULC approved)
1	Certified Bump or Calibration Gas
1	Container of leak detection liquid
1	Set Class 1, Zone 1 gas detection equipment which is capable of continuously monitoring lower explosive limits, oxygen and hydrogen sulphide maintained to manufacturer's recommendations
1	Set fire retardant clothing
1	Pair gloves, rubber
1	Pair gloves or mitts, leather
1	Hard hat with winter liner
1	Pair rubber safety boots
1	Pair safety boots
1	5 point reflective tear away safety vest with ERAC RMA logo
1	Rain suit, fire retardant
1	Set eye protection
1	Set hearing protection
1	Basic first aid kit
1	Mini tape recorder OR clipboard, paper and markers
1	Binoculars / Monocular
1	Roll barrier tape, 100 yards
1	Pipe wrench, 8"
1	Pipe wrench, 14"
1	Camera or cell phone with camera
1	Tape measure
1 each	Pressure gauge (0-30 psi, 0-100 psi, 0-300 psi)
1	Roll duct tape
1	Crescent wrench, 12"
1	Set pliers
1	Safety harness and lanyard
1	Cellular phone, with internet and email access
1	Set dissipative material
1	Emergency Response Guidebook, latest edition

Table 9: ERAC Response Team Equipment Standard

TRANSFER EQUIPMENT			
Quantity	Description of Resource		
2	Pumps, or 1 pump and 1 compressor, for two simultaneous transfers, including power unit		
350 ft.	Liquid hoses, 2", rated for LPG use (with spare gaskets), for two simultaneous transfers		
150 ft.	Vapour hoses, 1 or 2", rated for LPG use (with spare gaskets), for two simultaneous transfers		
8	"Snappy Joe" manual or pneumatic emergency remote shutoff valves, for two simultaneous transfers		
2 sets	bonding and grounding equipment, including 6 50' cables, bonding clamps, grounding rods, plates or foil		
1	typical multimeter		
500 cubic feet	Nitrogen bottles		
24	Rail tank car seals		
1 each	Flare stack, minimum 2' flare pot (liquid flaring), with pilot or ignitor, and flame arrestor		
2 each	Pressure gauges, 0-30 psi, 0-100 psi, 0-300 psi		
	SAFETY EQUIPMENT		
Quantity	Description of Resource		
6	Class 1, Zone 1 gas detection equipment which is capable of continuously monitoring lower explosive limits, oxygen and hydrogen sulphide		
1	Class 1, Zone 1 gas detection equipment which is capable of continuously monitoring butadiene in ppm		
1 set	Certified bump/calibration gas (pentane) and calibration equipment, with manufacturer's instruction booklet		
4	Self-contained breathing apparatus, high pressure or 30 minute industrial grade or better		
4	Air bottles for self-contained breathing apparatus (spare)		
8	Full face respiration masks		
24	Organic vapour respiration mask cartridges		
4	Harness and lanyard, for fall arrest		
2	Air horn		
1	Wind sock		
1	Hard copy or ERAP and SDS/technical briefs (alternatively cell phone with access to internet and email)		
4 sets	Rail tank car tank chocks		
4	Blue flags or blue lights (to signal track closure)		
3+	Fire extinguishers (20 lb), ABC		
1 per vehicle	Fire extinguishers (10 lb), ABC		
1	Binoculars		
1	Cell phone with internet and email access, satellite phone to be rented if going to area with no cell coverage		

Table 9: ERAC Response Team Equipment Standard (cont.)

	SUPPORT EQUIPMENT		
Quantity	Description of Resource		
4	Class 1 Zone 1 radios		
1	Generator sufficient to power response trailer requirements, lights, battery chargers		
4	Flood lights, minimum 500 Watt		
1	Pipefitter's tripod or vice		
2	Lifting bag and rope		
1	Tool box, equipped with wire brush, scrapers, pipe tape, box wrenches, adjustable wrenches, measuring tape, pliers		
3 each	Pipe wrenches, 24" and 36"		
1	Emergency Response Guidebook		
	PERSONAL PROTECTIVE EQUIPMENT		
Quantity	Description of Resource		
1 per responder	High visibility fire retardant clothing, appropriate for weather conditions		
1 per responder	5 point tear away reflective safety vest		
1 set per responder	Chemical and nitrile rubber gloves		
1 set per responder	Leather work gloves or mitts		
1 per responder	Hard hat		
1 set per responder	Safety work boots		
1 set per responder	Rubber safety boots with puncture resistant soles		
1 set per responder	Eye protection, safety glasses, safety goggles, and face shields		
1 set per responder	Hearing protection, plugs or ear muffs		
1 per responder	Fire retardant rain suit		
1 per responder	Flashlight, hand held or helmet mounted, Class 1 groups C&D		

#### 5.3 Communication System

Budget Propane has developed two primary communication systems for use in response to a propane emergency. The first is a verbal onsite notification system that sends the call for evacuation from the facility. The second system, consisting of cellular phones, is used by emergency response personnel to maintain contact with each other while dealing with the emergency.

#### 5.3.1 Evacuation Notification

The onsite notification system is comprised of verbal notification initiated by the Evacuation Warden. Once initiated, the auditory signal indicates an evacuation order to all onsite personnel.

#### 5.3.2 <u>Communication During Emergency</u>

For communications with other required company personnel who are offsite at the time of the propane emergency, telephone landlines or cellular phones may be used for establishing emergency communication. The contact information for necessary company personnel is provided in Section 3.1 Emergency Contacts.

#### 5.4 Muster Areas

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Two muster areas where employees, contractors, and visitors will evacuate in the event of an emergency have been identified in this plan. Unless circumstances dictate otherwise, personnel should evacuate to the primary muster area. It is primarily the responsibility of the Evacuation Warden to decide which muster area is appropriate. The locations of the muster areas are as follows:

- primary muster area: Muskoka Gas and Restaurant, 7280 Lake Joseph Road; and
- secondary muster area: 33 Silver Sands Lake Road.

Muster areas are also identified on the overhead view of the facility which can be found in Appendix B.

#### 6.0 EMERGENCY PREPAREDNESS

## **6.1** Propane Emergency Prevention

Propane emergency prevention and overall safety is primarily achieved through facility design and construction, and compliance with applicable standards. The use and handling of propane, and procedures followed for the receipt of propane at the facility are according to the requirements of Canadian Standards Association ("CSA") B149.2-20 *Propane storage and handling code*, as adopted by the Technical Standards and Safety Authority ("TSSA"). In addition, the bulk propane tanks at the Budget Propane MacTier facility are designed and built according to the American Society of Mechanical Engineers Boiler and Pressure Vessel Code: Section VIII, Division 1.

Budget Propane also prevents propane emergencies or their escalation through the following measures:

- preventative maintenance checks and programs;
- operating procedures and maintenance of facility documentation;
- selection of the proper mode of transport and transportation equipment suitable for the tasks or loads;
- developing, maintaining and implementing Budget Propane Health and Safety policies (WHMIS, First Aid programs, etc.)
- operator competence and training; and
- processes and procedures to ensure that changes in design, service or staff are managed to minimize impacts on operations.

The elements above are described and documented in separate Budget Propane policies and procedures.

The *Transportation of Dangerous Goods Regulations* under the direction of Transport Canada, also plays a role in ensuring the safe handling, transport and delivery of propane. *Transportation of Dangerous Goods Regulations* requires specific shipping documents, a level of driver training, product identification on shipping vehicles, and a registered company specific ERAP for certain installations.

#### 6.2 Training

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Employees at Budget Propane required to handle propane have received accredited training through the Canadian Propane Association ("CPA"). Similarly, bulk truck drivers have received approved TDG training.

#### 7.0 PUBLIC AWARENESS AND EDUCATION

The properties/individuals that may be affected by an offsite emergency are identified in Table 10 below.

**Table 10: Affected Public Contact Information** 

Name of Resident/Company	Address	Telephone Number
Occupants - Duffy's Lane Plaza	91 Duffy's Lane (corner of Duffy's Land & Lake Joseph Road)	
V. MacLeod	33 Silver Sands Lake Road	(705) 375-1686
Calloway Storage	15 Silver Sands Lake Road	(705) 375-0777

Propane hazards have been communicated to the Township of Georgian Bay Fire Department. Additional information is available to the public in an SDS for propane attached in Appendix A, as well as through the publication of a notice on the TSSA website at:

https://www.tssa.org/risk-and-safety

As a member of the CPA, Budget Propane is knowledgeable of the public safety campaign undertaken by the association. The following website provides information on propane safety:

https://propane.ca/safety/

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In the event of an emergency, the designated Company Spokesperson at Budget Propane can facilitate initial and subsequent communications with the public and the media under the direction of the Emergency Services Unified Command Structure, or municipal authorities.

Through the publication of this ERPP, community members most likely to be affected by an emergency have been provided with important contact information that includes key personnel at Budget Propane and government/municipal organizations.

Notification of the end of an emergency to all those affected may be the responsibility of the Company Spokesperson. The Company Spokesperson can proceed with announcing the end of an emergency when indicated to do so by the Emergency Services Unified Command Structure, or appropriate municipal authority. Communication of such information is to be done by means of telephone or media.

#### 8.0 EMERGENCY RESPONSE PROCEDURES

# 8.1 Activation of the ERPP, ERAP and Notification of the Emergency

In the event of a propane emergency, 911 will have been called unless there is a minor release. The ERPP and ERAP should be activated by the Evacuation Warden, or an employee at Budget Propane designated by the Evacuation Warden. Upon activation of the plans and after successfully evacuating, the Evacuation Warden or designated employee should ensure that all required regulatory authorities have been promptly notified. Contact information has been provided in Table 5. Examples of regulatory reporting requirements have also been provided in Section 3.1.

## 8.2 Onsite Activation and Notification Procedures

An activation and notification flowchart has been provided below in Figure 3. The flow chart shows steps to take before and after activating the emergency plans. It also shows the proper authorities to notify after the discovery of a propane emergency. The flow chart summarizes actions to take from the beginning of a propane emergency until the Incident Command Structure is established.

Discovery of the Propane Emergency Fire or No Uncontrolled Not a Propane Report to SAC and file written report for ECCC Major Release? Emergency Yes No Uncontrolled Fire? Major Release Yes Yes IF SAFE Stop Propane Flow Leave Immediate Area and Inform Evacuation Warden Evacuate to Muster Area Call 9-1-1 Notify SAC by calling 1 (800) 268-6060 Notify Internal Authority Activate ERAP by calling ERAC Response Centre 1 (800) 265-0212 Take on ERPP Role when Incident Command is

**Figure 3: Activation and Notification Flow Chart** 

Established

The following is a generalized outline of activation, notification and emergency procedures to follow during a propane emergency.

#### Step 1 - Identify the situation

- For a frost bite, stop any activity being performed and seek first aid immediately.
- For a propane emergency such as fire or a major accidental release, follow the steps below.

#### Step 2 - IF it is possible to stop flow of product while evacuating

- Stop product flow **IF SAFE** to do so by either:
  - Activating one of the emergency stop buttons;
  - Shutting off the pump by cutting the power supply;
  - o Relieving the pressure in the pneumatic system;
- Do **NOT** attempt to put out even a small propane-fed fire unless you are able to cut off the supply of gas to the flame.

#### Step 3 - Leave the immediate area

- Inform Evacuation Warden of location of fire or release
- Initiate the Evacuation Procedure
- Isolate area for at least 150 m in all directions
- Restrict access to isolated area

# Step 4 - Proceed to designated muster area

- IF in doubt of muster area location, look for the Evacuation Warden identifiable through the "white" hat and reflective vest.
- DO NOT start any vehicle walk, do not run to muster area

#### Step 5 - Call 9-1-1 to speed up the dispatch of emergency resources

- Have emergency information ready:
  - o nature of emergency (fire or release);
  - facility location;
  - o building name and address;
  - o identify the safe approach route (based on muster area selection);
  - o call-back number;
  - location of fire or release;
  - o duration of the fire or release; and
  - o any other relevant information

## Step 6 - Notify SAC by calling 1 (800) 268-6060

- Have emergency information ready:
  - o nature of emergency (fire or release);
  - o facility location;
  - o building name and address;
  - o identify the safe approach route (based on muster area selection);
  - o call-back number;
  - location of fire or release;
  - o duration of the fire or release; and
  - o any other relevant information

#### Step 7 - Notify Internal Authority

• Notify Internal Response Manager/Alternate and/or Company Management.

# Step 8 - Call ERAC Response Centre at 1 (800) 265-0212 and ACTIVATE the ERAP

- Have emergency information ready:
  - o nature of emergency (fire or release);
  - facility location;
  - o building name and address;
  - o call-back number;
  - o location of fire or release;
  - o duration of the fire or release; and
  - o any other relevant information.

Step 9 - Take on ERPP role when the Incident Command Structure is established

#### 8.3 Onsite Evacuation Procedure

Evacuation to a safe area is necessary to protect employees in case of an emergency. Budget Propane has developed a system to communicate the requirement for evacuation to all employees onsite. Employees are to evacuate to one of two muster areas, where they will be counted and given direction on how to proceed. The following instructions describe the evacuation procedures set out by Budget Propane for employees, contractors and visitors:

- 1. Obey the call for evacuation;
- 2. Follow instructions of the Evacuation Warden;
- 3. Proceed to the designated Muster Area. If in doubt of Muster Area location, look for the Evacuation Warden identifiable through the hard hat and reflective clothing then proceed to their location.
- 4. During evacuation personnel shall:
  - a. NOT stop for valuables;
  - b. shut off electrical appliances and fuel-fired equipment;
  - c. leave lights on;

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- d. close doors and windows;
- e. WALK, never run while evacuating;
- f. evacuate via the shortest and safest route;
- g. remain in the Muster Area until instructed otherwise by the Evacuation Warden;
- h. assist the Evacuation Warden with the head count;
- give any information about the propane emergency or about persons who might still be in the facility to the Evacuation Warden or Emergency Services Unified Command Structure; and
- j. NOT re-enter the facility for any reason until told to do so by the Emergency Services Unified Command Structure or the Evacuation Warden.

#### 8.4 Offsite Evacuation Procedure

Members of the public that may be affected by a propane emergency are advised to wait for further instruction from municipal authorities and the Emergency Services Unified Command Structure.

#### 9.0 RECOVERY

After a propane emergency, the following recovery procedure is to be followed:

- Adequately ventilate all areas that may have accumulated any gas to safe levels of propane concentration in air of less than 25% of the LEL of propane, (i.e. an equivalent of less than 0.5% propane concentration by volume in air).
- Dispose of debris.

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 Although propane is not considered to be an environmental hazard, spills and leaks of other hydrocarbon fuels stored at the Budget Propane MacTier facility must be cleaned up after an emergency.

# 9.1 Compensation

CPA member and non-member parties who participated in response to a propane emergency at Budget Propane shall be compensated appropriately. Remedial Measures Advisors and Response Team Members shall be compensated according to the compensation schedules defined in the ERAP #2-0010-328 document.

# 10.0 APPENDICES

Last Updated: July 18, 2025

# Appendix A

Propane SDS

Prepared By: Budget Propane Corporation

Last Updated: July 18, 2025

Propane

Date of Preparation: April 11, 2016

#### **Section 1: IDENTIFICATION**

Product Name: Propane

**Synonyms:** Propane HD-5; Propane Odorized; Propane Non-Odorized.

Product Use: Industrial applications.

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 - Compressed Gas

Simple Asphyxiant

LABEL ELEMENTS

Hazard

Pictogram(s):



Signal Word: Danger

Hazard Extremely flammable gas.

Statements: Contains gas under pressure; may explode if heated.

May displace oxygen and cause rapid suffocation.

**Precautionary Statements** 

**Prevention:** Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

**Response:** Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Eliminate all ignition sources if safe to do so.

**Storage:** Store in a well-ventilated place.

Protect from sunlight.

Disposal: Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: None.

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.

Propane

SAFETY DATA SHEET Date of Preparation: April 11, 2016

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS								
Hazardous Ingredient(s)	Common name /	CAS No.	% vol./vol.					
	Synonyms							
Propane	Not available.	74-98-6	90 - 100					
Ethane	Not available.	74-84-0	1 - 5					
1-Propene	Propylene	115-07-1	1 - 10					
Butane	Not available.	106-97-8	0.25 - 2.5					
Methane	Not available.	74-82-8	0 - 0.5					

#### **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. 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. May cause eye irritation. Signs/symptoms may include redness,

swelling, pain, tearing, and blurred or hazy vision.

**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. 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. May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**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

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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. Oxides of sulphur.

Protection of Firefighters: Leaking gas fire: Do not extinguish, unless leak can be

stopped safely. Eliminate all ignition sources if safe to do so. 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

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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:

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking. Pressurized container: Do not pierce or burn, even after use. See Section 8 for information on Personal Protective Equipment.

## Storage:

Store in a well-ventilated place. 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

Propane [CAS No. 74-98-6]

**ACGIH:** Asphyxia

**OSHA:** 1000 ppm (TWA), 1800 mg/m³ (TWA);

Ethane [CAS No. 74-84-0]

**ACGIH:** Asphyxia

**OSHA:** No PEL established. Propylene [CAS No. 115-07-1]

ACGIH: 500 ppm (TWA); A4 (2005)

**OSHA:** No PEL established.

Butane [CAS No. 106-97-8]

**ACGIH:** 1000 ppm (TWA); (2012) **OSHA:** 800 ppm (TWA) [Vacated];

Methane [CAS No. 74-82-8]

**ACGIH:** Asphyxia

OSHA: No PEL established.

**PEL:** Permissible Exposure Limit **TWA:** Time-Weighted Average

C: Ceiling

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels

of dust, fume, vapour, gas, etc.) below recommended

exposure limits.

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#### PERSONAL PROTECTIVE EQUIPMENT (PPE)



**Eye/Face Protection:** Safety glasses are required. 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.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Liquefied gas. Colour: Colourless.

Odourless, unless odourized with ethyl mercaptan (skunky odour).

Odour Threshold: Not available.

Physical State: Gas.

**pH:** Not available.

Melting Point / Freezing

Point:

-185.6 °C (-302 °F)

Initial Boiling Point: -42.2 °C (-44 °F)

Boiling Point: -42 °C (-43.6 °F)

Flash Point: -104.4 °C (-155.9 °F) (Closed Cup)

**Evaporation Rate:** Not available.

Flammability (solid, gas): Extremely flammable gas.

Lower Flammability Limit: 2.1 % Upper Flammability Limit: 9.5 %



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**Vapor Pressure:** 192 psig at 37.8 °C (100 °F)

Vapor Density: 1.52 to 1.6 (Air = 1)

**Relative Density:** 0.51 to 0.59 (Water = 1)

Solubilities: Insoluble in water.

Partition Coefficient: n-

Octanol/Water:

**SAFETY DATA SHEET** 

Not available.

**Auto-ignition Temperature:** 449.9 °C (841.82 °F)

**Decomposition** 

Temperature:

Not available.

Viscosity: Not available. Percent Volatile, wt. %: Not available. VOC content, wt. %: Not available. 0.5035 g/cm3

Coefficient of Water/Oil

Distribution:

Density:

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:

Not available.

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

heat.

**Incompatible Materials:** Strong acids. Strong bases. Oxidizers. Oxides of nitrogen. Chlorine.

Halogens.

**Hazardous Decomposition Products:** Not available.

106-97-8

# Section 11: TOXICOLOGICAL INFORMATION

# **EFFECTS OF ACUTE EXPOSURE**

**Product Toxicity** 

Oral: Not available. Dermal: Not available. Inhalation: Not available.

**Component Toxicity** 

Butane

	component	LC50
	Propane	Not available.
Dranylana 145 07 1 Not available Not available 96000 mg/m3	thane	Not available.
Propylene 115-07-1 Not available. Not available. 86000 mg/m <sup>3</sup>	Propylene	86000 mg/m³ (rat); 4h

Not available.

658000 mg/m<sup>3</sup> (rat); 4H

Not available.



Propane

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Methane 74-82-8 Not available. Not available. Not available.

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

**Target Organs:** Skin. Eyes. Respiratory system. Blood. Cardiovascular system.

Liver. Kidneys. Nervous system.

Symptoms (including delayed and immediate effects)

**Inhalation:** May displace oxygen and cause rapid suffocation. May cause respiratory irritation.

Signs/symptoms may include cough, sneezing, nasal discharge, headache,

hoarseness, and nose and throat pain.

Eve: 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. May cause eye irritation. Signs/symptoms may include

redness, swelling, pain, tearing, and blurred or hazy vision.

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. May cause skin irritation.

Signs/symptoms may include localized redness, swelling, and itching.

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. Liver.

Kidneys. Nervous system.

**Chronic Effects:** Not available.

Carcinogenicity: Product is not classified as a carcinogen. See Component

Carcinogenicity table below for information on individual components.

**Component Carcinogenicity** 

Component ACGIH IARC NTP OSHA Prop 65 Not listed. Propylene A4 Group 3 Not listed. Not listed.

Mutagenicity: Not available. **Reproductive Effects:** Not available.

Developmental Effects

Teratogenicity: Not available. Embryotoxicity: Not available.

Toxicologically Synergistic Materials: Not available.

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# **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:

FLAMMABLE GAS 2

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
Ethane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Propylene	Not listed.	Not listed.	Not listed.	313	Not listed.	10000
Butane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Methane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000

# **State Regulations**

# Massachusetts

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

Component	ĆAS No.	RTK List
Propane	74-98-6	Listed.
Ethane	74-84-0	Listed.
Propylene	115-07-1	Listed.
Butane	106-97-8	Listed.
Methane	74-82-8	Listed.

# **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
Ethane	74-84-0	SHHS
Propylene	115-07-1	SHHS
Butane	106-97-8	SHHS
Methane	74-82-8	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. Ethane 74-84-0 Listed. Propylene 115-07-1 Butane 106-97-8 Listed. 74-82-8 Listed. Methane

Note: E = Environmental Hazard

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California

California Prop 65: This product does not contain chemicals known to the State of California

to cause cancer, birth defects or other reproductive harm.

## **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: 2.1

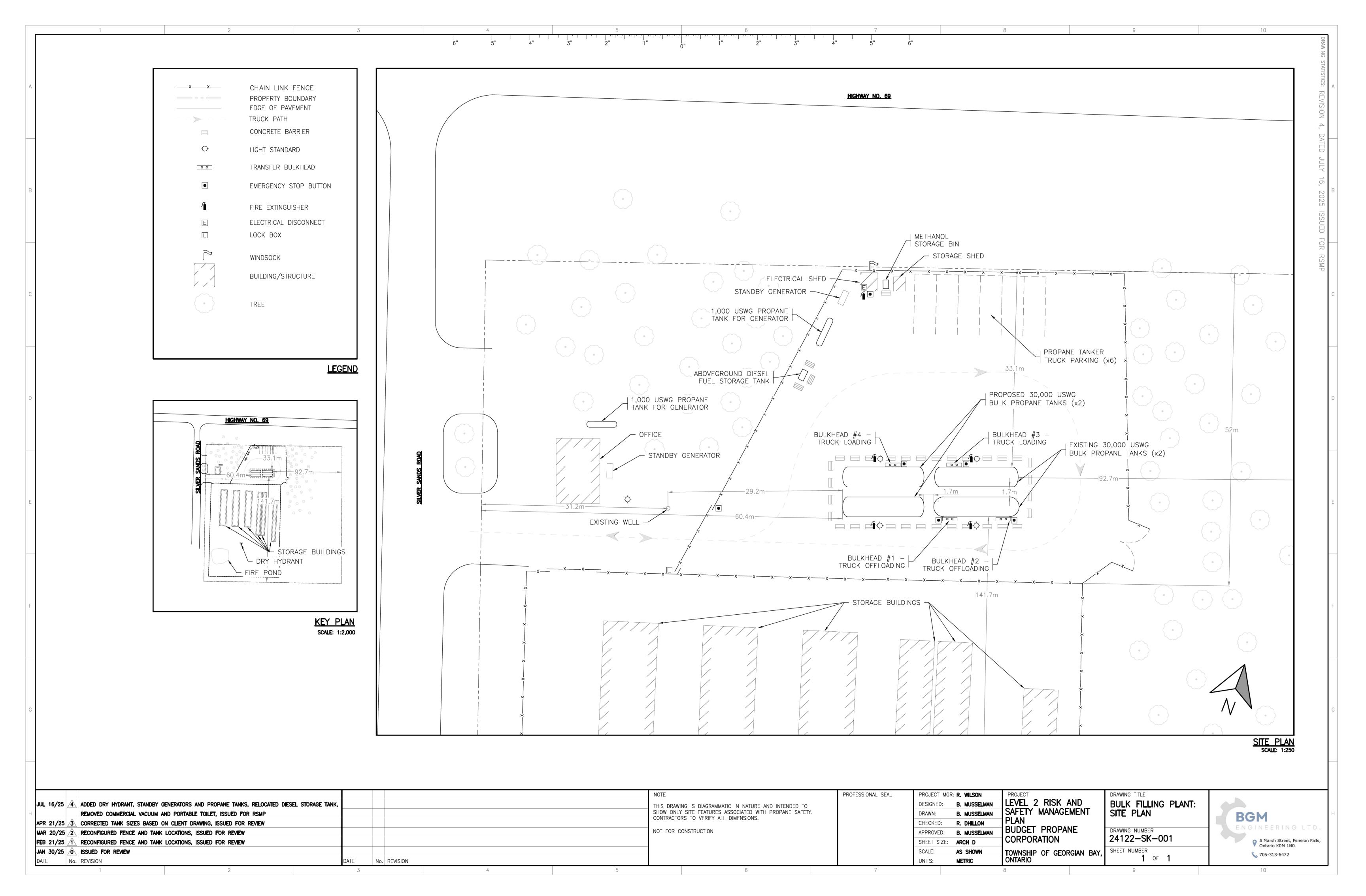
GHS SDS Prepared by: Deerfoot Consulting Inc.

Phone: (403) 720-3700

# Appendix B

Site Plan

Last Updated: July 18, 2025 Prepared By:
Budget Propane Corporation



Muster Areas

Last Updated: July 18, 2025 Prepared By:
Budget Propane Corporation



Last Updated: July 18, 2025

# Appendix C

Quick Reference Charts for Vapour Cloud Regime - 4 x 30,000 USWG

Prepared By: Budget Propane Corporation

				ı	eak Size (Appro	ximate Diameter	·)		
		0.25"		1"		2"		3"	
			Weather Condition						
		Winter         Summer         Winter         Summer         Winter         Summer         Winter           (-10°C)         (23°C)         (-10°C)         (23°C)         (-10°C)         (23°C)					Summer (23°C)		
	55% Initial Fill	129	126	9	8	2	2	1	1
Duration (hrs)	70% Initial Fill	161	139	10	9	3	2	1	1
	85% Initial Fill	199	150	12	10	3	3	2	1
Vapour Cloud Dimensions (m)	Length	6	15	105	87	282	188	489	296
	Width	2	2	56	17	173	43	315	75

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Instructions for how to use this table:

There are three variables to select on this table: leak size, weather condition, and initial bulk tank contents. These variables will determine the calculated leak duration, vapour cloud length, and vapour cloud width. An example is shown for the use of this table with the factors a 1", winter release, and initially 70% full bulk tank system.

				ال	eak Size (Appro	ximate Diameter	r)		
		0.2	!5"	(1	" )	2	"	3	"
					Weather	Condition			
		Winter (-10°C)	Summer (23°C)	Winter (-10°C)	Summer (23°C)	Winter (-10°C)	Summer (23°C)	Winter (-10°C)	Summer (23°C)
	55% Initial Fill	129	120	9	8	2	2	1	1
Duration (hrs)	70% Initial Fill	161	139	10	9	3	2	1	1
	85% Initial Fill	199	150	12	10	3	3	2	1
					·				
Vapour Cloud	Length	6	15	105	87	282	188	489	296
Dimensions (m)	Width	2	2	56	17	173	43	315	<b>7</b> 5

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