

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015 Issue date: 2023-08-15 Revision date: 2023-08-15 Version: 1.0

| SECTION 1: Identification   |  |
|---|--|
| 1.1. Identification   |  |
| Product form<br>Product name<br>Other means of identification   | <ul> <li>Mixture</li> <li>Natural Gas</li> <li>Methane, Sweet Gas, fuel Gas, Pipeline Spec Gas, Sales Gas, Dry Natural Gas, Compressed Gas, CH4</li> </ul>   |
| 1.2. Recommended use and restrictions on  | use  |
| Use of the substance/mixture  | : Fuel   |
| 1.3. Supplier   |  |
| Manufacturer<br>Maritimes & Northeast Pipeline Limited Partnership<br>801 Hollis Street, Suite 1600<br>Halifax, N.S. B3J 3N4 - Canada<br>www.enbridge.com |  |
| 1.4. Emergency telephone number   |  |
| 24x7 Emergency Contact Number: 1-888-444-6677   |  |
| SECTION 2: Hazard(s) identification   |  |
| 2.1. Classification of the substance or mixtu   | ure  |
| GHS classification<br>Flammable Gases - Category 1<br>Gases Under Pressure - Compressed Gas<br>Simple Asphyxiants   |  |
| 2.2. GHS Label elements, including precaut  | ionary statements  |
| GHS labelling   |  |
| Hazard pictograms (GHS)   |  |
| Signal word (GHS)   | : Danger   |
| Hazard statements (GHS)   | <ul> <li>Extremely flammable gas.</li> <li>Contains gas under pressure; may explode if heated.</li> <li>May displace oxygen and cause rapid suffocation</li> </ul>   |
| Precautionary statements (GHS)  | <ul> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Leaking gas fire: Do not extinguish, unless leak can be stopped safely.</li> <li>Eliminate all ignition sources if safe to do so.</li> <li>Store in a well-ventilated place.</li> <li>Protect from sunlight. Store in a well-ventilated place.</li> </ul> |
| 2.3. Other hazards which do not result in cl  | assification   |
| No additional information available   |  |

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### 2.4. Unknown acute toxicity

Not applicable

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

### Not applicable

### 3.2. Mixtures

| Name           | Chemical name / Synonyms  | Product identifier | %        |
|----------------|---|--------------------|----------|
| Natural gas    | Natural gas<br>Gas, natural / Synthetic natural gas / Natural gases /<br>Natural gas (Raw natural gas, as found in nature, or a<br>gaseous combination of hydrocarbons having carbon<br>numbers predominantly in the range of C1-4 separated<br>from raw natural gas by the removal of natural gas<br>condensate, natural gas liquid, and natural gas<br>condensate/natural gas.) / Compressed natural gas /<br>Liquified natural gas | CAS-No.: 8006-14-2 | 80 – 100 |
| Methane        | Methane<br>Marsh gas / Methyl hydride / Methane, compressed /<br>Monomethylamine  | CAS-No.: 74-82-8   | 80 – 100 |
| Ethane         | Ethane<br>Ethyl hydride / ETHANE  | CAS-No.: 74-84-0   | 1 – 5    |
| Propane        | Propane<br>n-Propane / R290 / PROPANE / Normal propane  | CAS-No.: 74-98-6   | 1 – 5    |
| n-Butane       | n-Butane<br>Butane / BUTANE   | CAS-No.: 106-97-8  | 1 – 5    |
| Nitrogen       | Nitrogen<br>Nitrogen gas / Nitrogen, liquefied / NITROGEN /<br>Nitrogen, compressed / nitrogen  | CAS-No.: 7727-37-9 | 1 – 5    |
| Carbon dioxide | Carbon dioxide<br>Dry ice / CARBON DIOXIDE  | CAS-No.: 124-38-9  | 1 – 5    |
| n-Pentane      | n-Pentane<br>Pentane / Normal pentane / PENTANE / Pentane, n-   | CAS-No.: 109-66-0  | 1 – 5    |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

| SECTION 4: First-aid measures          |  |
|--|--|
| 4.1. Description of first aid measures |  |
| First-aid measures after inhalation    | <ul> <li>If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position<br/>comfortable for breathing. Give oxygen or artificial respiration if necessary. Call a POISON<br/>CENTER/doctor if you feel unwell.</li> </ul> |
| First-aid measures after skin contact  | : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.  |
| First-aid measures after eye contact   | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.   |

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| First-aid measures after ingestion       | : Not a normal route of exposure. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.   |
|--|--|
| 4.2. Most important symptoms and effects | (acute and delayed)  |
| Symptoms/effects after inhalation        | : May cause irritation to the respiratory tract. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death. |
| Symptoms/effects after skin contact      | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.   |
| Symptoms/effects after eye contact       | : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear<br>production, with possible redness and swelling.   |
| Symptoms/effects after ingestion         | : Not a normal route of exposure. May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.   |

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

| SECTION 5: Fire-fighting measures                                   |   |  |
|---|---|--|
| 5.1. Suitable (and unsuitable) extinguishing media                  |   |  |
| Suitable extinguishing media<br>Unsuitable extinguishing media      | <ul><li>Dry chemical. Water spray, fog, foam, carbon dioxide.</li><li>None known.</li></ul>   |  |
| 5.2. Specific hazards arising from the chemical                     |   |  |
| Fire hazard<br>Explosion hazard                                     | <ul> <li>Extremely flammable gas. Products of combustion may include, and are not limited to: oxides of carbon.</li> <li>May form flammable/explosive vapour-air mixture. Ruptured cylinders may rocket.</li> </ul>   |  |
| 5.3. Special protective equipment and precautions for fire-fighters |   |  |
| Firefighting instructions Protection during firefighting            | <ul> <li>Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.</li> <li>Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).</li> </ul> |  |

| SECTION 6: Accidental release measures                                   |   |  |
|--|---|--|
| 6.1. Personal precautions, protective equipment and emergency procedures |   |  |
| General measures :   | <ul> <li>Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to<br/>unnecessary and unprotected personnel. Use special care to avoid static electric charges.</li> <li>Eliminate every possible source of ignition.</li> </ul> |  |
| 6.1.1. For non-emergency personnel                                       |   |  |
| No additional information available                                      |   |  |
| 6.1.2. For emergency responders  |   |  |
| No additional information available                                      |   |  |
| 6.2. Environmental precautions   |   |  |

Avoid release to the environment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

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| 6.3. Methods and material for containment and cleaning up |  |
|---|--|
| For containment   | : Stop leak if safe to do so. Remove all sources of ignition. Wear recommended personal<br>protective equipment. |
| Methods for cleaning up                                   | : Ventilate the area thoroughly, especially low lying areas (basements, workpits etc)                            |
| 6.4. Reference to other sections                          |  |
|   |  |

For further information refer to section 8: "Exposure controls/personal protection".

| SECTION 7: Handling and storage  |  |
|--|--|
| 7.1. Precautions for safe handling   |  |
| Additional hazards when processed<br>Precautions for safe handling<br>Hygiene measures | <ul> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>Avoid contact with skin and eyes. Do not swallow. Avoid breathing gas. Handle and open container with care. When using do not eat, drink or smoke. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area.</li> <li>Wash contaminated clothing before reuse. Always wash hands after handling the product.</li> </ul> |
| 7.2. Conditions for safe storage, including  | any incompatibilities  |
| Technical measures<br>Storage conditions   | <ul> <li>Proper grounding procedures to avoid static electricity should be followed.</li> <li>Store in accordance with local regulations Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from sunlight. Protect containers from physical damage. Eliminate ignition sources. Firmly secure cylinders upright to keep them from falling or being knocked over.</li> </ul>   |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Natural Gas  |  |  |
|--|--|--|
| No additional information available                  |  |  |
| Natural gas (8006-14-2)                              |  |  |
| Canada (Saskatchewan) - Occupational Exposure Limits |  |  |
| OEL TWA [ppm]  | 1000 ppm   |  |
| OEL STEL [ppm]                                       | 1250 ppm   |  |
| USA - ACGIH - Occupational Exposure Limits           |  |  |
| ACGIH chemical category                              | Simple asphyxiant See Appendix F: Minimal Oxygen Content |  |
| Methane (74-82-8)                                    |  |  |
| Canada (Saskatchewan) - Occupational Exposure Limits |  |  |
| OEL TWA [ppm]  | 1000 ppm   |  |
| OEL STEL [ppm]                                       | 1250 ppm   |  |
| USA - ACGIH - Occupational Exposure Limits           |  |  |
| ACGIH chemical category                              | Simple asphyxiant See Appendix F: Minimal Oxygen Content |  |

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| Ethane (74-84-0)                                     |  |  |
|--|--|--|
| Canada (Alberta) - Occupational Exposure Limits      |  |  |
| OEL TWA [ppm]  | 1000 ррм   |  |
| Canada (Saskatchewan) - Occupational Exposure Limits |  |  |
| OEL TWA [ppm]  | 1000 ppm   |  |
| OEL STEL [ppm]                                       | 1250 ppm   |  |
| USA - ACGIH - Occupational Exposure Limits           |  |  |
| ACGIH chemical category                              | Simple asphyxiant See Appendix F: Minimal Oxygen Content |  |
| Propane (74-98-6)                                    |  |  |
| Canada (Alberta) - Occupational Exposure Limits      |  |  |
| OEL TWA [ppm]  | 1000 ppm   |  |
| Canada (Quebec) - Occupational Exposure Limits       |  |  |
| VEMP (OEL TWA)                                       | 1800 mg/m³   |  |
| VEMP (OEL TWA) [ppm]                                 | 1000 ppm   |  |
| Canada (Saskatchewan) - Occupational Exposure L      | imits  |  |
| OEL TWA [ppm]  | 1000 ppm   |  |
| OEL STEL [ppm]                                       | 1250 ppm   |  |
| USA - ACGIH - Occupational Exposure Limits           |  |  |
| Local name   | Propane  |  |
| Remark (ACGIH)                                       | TLV® Basis: Simple Asphyxiant                            |  |
| ACGIH chemical category                              | Simple asphyxiant See Appendix F: Minimal Oxygen Content |  |
| Regulatory reference                                 | ACGIH 2023   |  |
| USA - OSHA - Occupational Exposure Limits            |  |  |
| Local name   | Propane  |  |
| OSHA PEL TWA [1]                                     | 1800 mg/m <sup>3</sup>                                   |  |
| OSHA PEL TWA [2]                                     | 1000 ppm   |  |
| Regulatory reference (US-OSHA)                       | OSHA Annotated Table Z-1                                 |  |
| USA - IDLH - Occupational Exposure Limits            |  |  |
| IDLH [ppm]   | 2100 ppm (10% LEL)                                       |  |
| USA - NIOSH - Occupational Exposure Limits           |  |  |
| NIOSH REL TWA  | 1800 mg/m <sup>3</sup>                                   |  |
| NIOSH REL TWA [ppm]                                  | 1000 ppm   |  |
| n-Butane (106-97-8)                                  |  |  |
| Canada (Alberta) - Occupational Exposure Limits      |  |  |
| OEL TWA [ppm]  | 1000 ppm   |  |
| Canada (British Columbia) - Occupational Exposure    | e Limits   |  |
| OEL STEL [ppm]                                       | 1000 ppm (Butane, all isomers)                           |  |
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| n-Butane (106-97-8)                               |  |  |
|---|--|--|
| Canada (Ontario) - Occupational Exposure Limits   |  |  |
| OEL STEL [ppm]                                    | 1000 ppm (explosion hazard (Butane, all isomers)   |  |
| Canada (Quebec) - Occupational Exposure Limits    |  |  |
| VEMP (OEL TWA)                                    | 1900 mg/m <sup>3</sup>   |  |
| VEMP (OEL TWA) [ppm]                              | 800 ppm  |  |
| Canada (Saskatchewan) - Occupational Exposure L   | imits  |  |
| OEL TWA [ppm]                                     | 1000 ppm (Butane, all isomers)   |  |
| OEL STEL [ppm]                                    | 1250 ppm (Butane, all isomers)   |  |
| USA - ACGIH - Occupational Exposure Limits        |  |  |
| ACGIH OEL STEL [ppm]                              | 1000 ppm (explosion hazard (Butane, isomers)   |  |
| USA - IDLH - Occupational Exposure Limits         |  |  |
| IDLH [ppm]  | 1600 ppm (>10% LEL)  |  |
| USA - NIOSH - Occupational Exposure Limits        | ·  |  |
| NIOSH REL TWA                                     | 1900 mg/m <sup>3</sup>   |  |
| NIOSH REL TWA [ppm]                               | 800 ppm  |  |
| Nitrogen (7727-37-9)                              |  |  |
| Canada (Alberta) - Occupational Exposure Limits   |  |  |
| Local name  | Nitrogen   |  |
| Notations and remarks                             | Substance is a simple asphyxiant that may create an atmosphere deficient in oxygen; available oxygen in the range of 19.5 percent to 23 percent by volume must be present. |  |
| Regulatory reference                              | Alberta Regulation 191/2021  |  |
| Canada (British Columbia) - Occupational Exposure | e Limits   |  |
| Local name  | Nitrogen   |  |
| Notations and remarks                             | Simple asphyxiant  |  |
| Regulatory reference                              | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)   |  |
| USA - ACGIH - Occupational Exposure Limits        |  |  |
| Local name  | Nitrogen   |  |
| Remark (ACGIH)                                    | TLV® Basis: Simple Asphyxiant  |  |
| ACGIH chemical category                           | Simple asphyxiant See Appendix F: Minimal Oxygen Content   |  |
| Regulatory reference                              | ACGIH 2023   |  |
| Carbon dioxide (124-38-9)                         |  |  |
| Canada (Alberta) - Occupational Exposure Limits   |  |  |
| Local name  | Carbon dioxide   |  |
| OEL TWA   | 9000 mg/m <sup>3</sup>   |  |
| OEL TWA [ppm]                                     | 5000 ppm   |  |
| OEL STEL  | 54000 mg/m <sup>3</sup>  |  |
| OEL STEL [ppm]                                    | 30000 ppm  |  |
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| Carbon dioxide (124-38-9)                                |  |  |
|--|--|--|
| Regulatory reference                                     | Alberta Regulation 191/2021  |  |
| Canada (British Columbia) - Occupational Exposure Limits |  |  |
| Local name   | Carbon dioxide   |  |
| OEL TWA [ppm]  | 5000 ppm   |  |
| OEL STEL [ppm]   | 15000 ppm  |  |
| Regulatory reference                                     | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |  |
| Canada (Ontario) - Occupational Exposure Limits          |  |  |
| OEL TWA [ppm]  | 5000 ppm   |  |
| OEL STEL [ppm]   | 30000 ppm  |  |
| Canada (Quebec) - Occupational Exposure Limits           |  |  |
| VECD (OEL STEL)  | 54000 mg/m³  |  |
| VECD (OEL STEL) [ppm]                                    | 30000 ppm  |  |
| VEMP (OEL TWA)   | 9000 mg/m³   |  |
| VEMP (OEL TWA) [ppm]                                     | 5000 ppm   |  |
| Canada (Saskatchewan) - Occupational Exposure L          | imits  |  |
| OEL TWA [ppm]  | 5000 ppm   |  |
| OEL STEL [ppm]   | 30000 ppm  |  |
| USA - ACGIH - Occupational Exposure Limits               |  |  |
| Local name   | Carbon dioxide   |  |
| ACGIH OEL TWA [ppm]                                      | 5000 ppm   |  |
| ACGIH OEL STEL [ppm]                                     | 30000 ppm  |  |
| Remark (ACGIH)   | TLV® Basis: Asphyxia   |  |
| Regulatory reference                                     | ACGIH 2022   |  |
| USA - OSHA - Occupational Exposure Limits                |  |  |
| Local name   | Carbon dioxide   |  |
| OSHA PEL TWA [1]   | 9000 mg/m <sup>3</sup>   |  |
| OSHA PEL TWA [2]   | 5000 ppm   |  |
| Regulatory reference (US-OSHA)                           | OSHA Annotated Table Z-1   |  |
| USA - IDLH - Occupational Exposure Limits                | USA - IDLH - Occupational Exposure Limits                                  |  |
| IDLH [ppm]   | 40000 ppm  |  |
| USA - NIOSH - Occupational Exposure Limits               |  |  |
| NIOSH REL TWA  | 9000 mg/m³   |  |
| NIOSH REL TWA [ppm]                                      | 5000 ppm   |  |
| NIOSH REL STEL   | 54000 mg/m³  |  |
| NIOSH REL STEL [ppm]                                     | 30000 ppm  |  |
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| n-Pentane (109-66-0)  |   |  |
|---|---|--|
| Canada (Alberta) - Occupational Exposure Limits               |   |  |
| OEL TWA   | 1770 mg/m <sup>3</sup>  |  |
| OEL TWA [ppm]   | 600 ppm   |  |
| Canada (British Columbia) - Occupational Exposure             | e Limits  |  |
| OEL TWA [ppm]   | 1000 ppm (Pentane, all isomers)   |  |
| Canada (Ontario) - Occupational Exposure Limits               |   |  |
| OEL TWA [ppm]   | 1000 ppm  |  |
| Canada (Quebec) - Occupational Exposure Limits                |   |  |
| VEMP (OEL TWA) [ppm]  | 1000 ppm (Pentane (all isomers))  |  |
| Canada (Saskatchewan) - Occupational Exposure L               | imits   |  |
| OEL TWA [ppm]   | 600 ppm   |  |
| OEL STEL [ppm]  | 750 ppm   |  |
| USA - ACGIH - Occupational Exposure Limits                    |   |  |
| ACGIH OEL TWA [ppm]   | 1000 ppm (Pentane, all isomers)   |  |
| USA - OSHA - Occupational Exposure Limits                     |   |  |
| OSHA PEL TWA [1]  | 2950 mg/m³  |  |
| OSHA PEL TWA [2]  | 1000 ppm  |  |
| USA - IDLH - Occupational Exposure Limits                     |   |  |
| IDLH [ppm]  | 1500 ppm (10% LEL)  |  |
| USA - NIOSH - Occupational Exposure Limits                    |   |  |
| NIOSH REL TWA   | 350 mg/m³   |  |
| NIOSH REL TWA [ppm]   | 120 ppm   |  |
| NIOSH REL C   | 1800 mg/m³  |  |
| NIOSH REL C [ppm]   | 610 ppm   |  |
| 8.2. Appropriate engineering controls                         |   |  |
|   | Ensure good ventilation of the work station.<br>Avoid release to the environment. |  |
| 8.3. Individual protection measures/Personal p                | protective equipment  |  |
| Hand protection:  |   |  |
| Wear suitable gloves. Consult glove manufacturer's pro-       | oduct information on material suitability and material thickness.                 |  |
| Eye protection:   |   |  |
| Safety glasses or goggles are recommended when using product. |   |  |
| Skin and body protection:                                     |   |  |
| Wear suitable protective clothing                             |   |  |
| Respiratory protection:                                       |   |  |

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In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

| Physical state                             | : Gas  |
|--|--|
| Colour                                     | : Colourless   |
| Odour                                      | : Odourless  |
|  | "Rotten Egg" smell (Mercaptan mixture added as odorant). |
| Odour threshold                            | : < 10000 ppm  |
| рН   | : No data available                                      |
| Melting point                              | : -182.6 °C (-296.7°F)                                   |
| Freezing point                             | : No data available                                      |
| Boiling point                              | : -161.5 °C (-258.7°F)                                   |
| Flash point                                | : > -188 °C (-370°F) (methane)                           |
| Relative evaporation rate (butylacetate=1) | : >1   |
| Flammability                               | : Extremely flammable gas.                               |
| Vapour pressure                            | : 133.3 kPa (>1000 mm Hg (20°C/68°F)                     |
| Relative vapour density at 20°C / 68 °F    | : 0.56 – 0.59  |
| Relative density                           | : No data available                                      |
| Solubility                                 | : No data available                                      |
| Partition coefficient n-octanol/water      | : No data available                                      |
| Auto-ignition temperature                  | : 537 °C (998.6°F)                                       |
| Decomposition temperature                  | : No data available                                      |
| Viscosity, kinematic                       | : No data available                                      |
| Viscosity, dynamic                         | : No data available                                      |
| Explosive limits                           | : Lower explosion limit: 5 vol %                         |
|  | Upper explosion limit: 15 vol %                          |
| Explosive properties                       | : No data available                                      |
| Oxidising properties                       | : No data available                                      |
|  |  |

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

**10.2. Chemical stability** 

Stable under normal conditions. Extremely flammable gas. Contains gas under pressure; may explode if heated.

**10.3. Possibility of hazardous reactions** 

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition. Direct sunlight.

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### 10.5. Incompatible materials

Oxidizing materials.

**10.6. Hazardous decomposition products** 

May include, and are not limited to: oxides of carbon.

| SECTION 11: Toxicological information      |   |
|--|---|
| 11.1. Information on toxicological effects |   |
| Acute toxicity (dermal) :                  | Not classified.<br>Not classified.<br>Not classified. |
| Natural gas (8006-14-2)                    |   |
| LC50 inhalation rat                        | 658 mg/l/4h   |
| ATE CA (vapours)                           | 658 mg/l/4h   |
| ATE CA (dust,mist)                         | 658 mg/l/4h   |
| Methane (74-82-8)                          |   |
| LD50 dermal rat                            | > 2000 mg/kg  |
| LC50 inhalation rat                        | 539600 ppm (Exposure time: 2 h)                       |
| ATE CA (Gases)                             | 539600 ppmv/4h  |
| Ethane (74-84-0)                           | ·   |
| LC50 inhalation rat                        | > 800000 ppm/4h                                       |
| Propane (74-98-6)                          |   |
| LC50 inhalation rat                        | > 800000 ppm (Exposure time: 15 min)                  |
| n-Butane (106-97-8)                        |   |
| LC50 inhalation rat                        | 658 g/m³ (Exposure time: 4 h)                         |
| ATE CA (vapours)                           | 658 mg/l/4h   |
| ATE CA (dust,mist)                         | 658 mg/l/4h   |
| n-Pentane (109-66-0)                       |   |
| LD50 oral rat                              | > 2000 mg/kg  |
| LD50 dermal rabbit                         | 3000 mg/kg  |
| LC50 inhalation rat                        | 364 g/m³ (Exposure time: 4 h)                         |
| ATE CA (Dermal)                            | 3000 mg/kg bodyweight                                 |
| ATE CA (vapours)                           | 364 mg/l/4h   |
| ATE CA (dust,mist)                         | 364 mg/l/4h   |
|  | Not classified.                                       |
| , .  | Not classified.                                       |
|  | Not classified.                                       |
| 5,   | Not classified.                                       |
| 5 ,  | Not classified.                                       |
| Reproductive toxicity :                    | Not classified.                                       |

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| 300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 (One-Generation Reproduction Toxicity Study)   |
|--|
| ≥ 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 (One-Generation Reproduction Toxicity Study)  |
| : Not classified.  |
|  |
| May cause drowsiness or dizziness.   |
| Not classified.  |
|  |
|  |
| 12000 ppm Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:  |
|  |
| 30 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: other:U.S. EPA/FIFRA Guidelines §82-4, Guideline: EPA OTS 798.2450 (90-Day Inhalation Toxicity), Guideline: other:U.S. EPA/TSCA Guidelines 40 CFR §798.6059, and §798.6059, 798.6200, 798.6400, Guideline: other:EU Guideline 87/302/EEC |
| Not classified.  |
| : May cause irritation to the respiratory tract. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.   |
| : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.   |
| : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.  |
| : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.   |
| : Likely routes of exposure: ingestion, inhalation, skin and eye.  |
|  |

| SECTION 12: Ecological information  |   |
|-------------------------------------|---|
| 12.1. Toxicity                      |   |
| Ecology - general :                 | May cause long-term adverse effects in the aquatic environment. |
| n-Pentane (109-66-0)                |   |
| LC50 - Fish [1]                     | 9.87 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)  |
| EC50 - Crustacea [1]                | 9.74 mg/l (Exposure time: 48 h - Species: Daphnia magna)        |
| LC50 - Fish [2]                     | 11.59 mg/l (Exposure time: 96 h - Species: Pimephales promelas) |
| 12.2. Persistence and degradability |   |
| Natural Gas                         |   |
| Persistence and degradability       | Not established.  |
| 12.3. Bioaccumulative potential     |   |
| Natural Gas                         |   |
| Bioaccumulative potential           | Not established.  |

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SECTION 14: Transport information

| Natural gas (8006-14-2)               |                                |  |
|---------------------------------------|--------------------------------|--|
| Partition coefficient n-octanol/water | ≤2.8                           |  |
| Methane (74-82-8)                     |                                |  |
| Partition coefficient n-octanol/water | 1.09                           |  |
| Ethane (74-84-0)                      |                                |  |
| Partition coefficient n-octanol/water | 1.09 – 2.8 (at 20 °C (at pH 7) |  |
| Propane (74-98-6)                     |                                |  |
| Partition coefficient n-octanol/water | 1.09 (at 20 °C (at pH 7)       |  |
| n-Butane (106-97-8)                   |                                |  |
| Partition coefficient n-octanol/water | 2.31 (at 20 °C (at pH 7)       |  |
| Carbon dioxide (124-38-9)             |                                |  |
| BCF - Fish [1]                        | (no bioaccumulation)           |  |
| n-Pentane (109-66-0)                  |                                |  |
| Partition coefficient n-octanol/water | 3.45 (at 25 °C (at pH 7)       |  |
| 12.4. Mobility in soil                |                                |  |
| No additional information available   |                                |  |

| 12.5. Other adverse effects                   |   |
|---|---|
| Effect on global warming<br>Other information | <ul><li>No known effects from this product.</li><li>No other effects known.</li></ul> |

| SECTION 13: Disposal considerations        |   |
|--|---|
| 13.1. Disposal methods                     |   |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Recycle empty containers where allowed. |
| Additional information                     | : Handle empty containers with care because residual vapours are flammable.   |

| In accordance with DOT / TDG  |  |       |
|---|--|-------|
| 14.1. UN number   |  |       |
| DOT NA No<br>UN-No. (TDG)   | : UN1971<br>: UN1971   |       |
| 14.2. UN proper shipping name   |  |       |
| Proper Shipping Name (DOT)<br>Proper Shipping Name (TDG)              | <ul> <li>Methane, compressed (OR Natural gas, compressed (Methane, Natural gas))</li> <li>METHANE, COMPRESSED (OR Natural gas, compressed (Methane, Natural gas))</li> </ul> |       |
| 14.3. Transport hazard class(es)                                      |  |       |
| <b>DOT</b><br>Transport hazard class(es) (DOT)<br>Hazard labels (DOT) | : 2.1<br>: 2.1   |       |
| 08/15/2023  | EN (English)   | 12/14 |

### Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

|   | PLANMALE CAS<br>2   |
|---|---|
| TDG   |   |
| Transport hazard class(es) (TDG)<br>Hazard labels (TDG) | : 2.1<br>: 2.1  |
| 14.4. Packing group                                     |   |
|   | · Nationalisatio  |
| Packing group (DOT)<br>Packing group (TDG)              | : Not applicable<br>: Not applicable  |
| 14.5. Environmental hazards                             |   |
| Other information                                       | : No supplementary information available.                                   |
| 14.6. Special precautions for user                      |   |
| Special transport precautions                           | : Do not handle until all safety precautions have been read and understood. |
| 14.7. Transport in bulk according to Ann                | nex II of MARPOL 73/78 and the IBC Code                                     |

Not applicable

### **SECTION 15: Regulatory information**

#### **15.1 Federal regulations**

All components of this product are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

#### **15.2. International regulations**

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### **SECTION 16: Other information**

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date Other information : 08/15/2023 : None.

Prepared by

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## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

| Full text of H-statements |                                       |
|---------------------------|---------------------------------------|
| Flam. Gas 1               | Flammable gases, Category 1           |
| Press. Gas<br>(Comp.)     | Gases under pressure : Compressed gas |
| Simple Asphy              | Simple Asphyxiant                     |

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2023

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