

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : P-18-26271
Other means of identification : 28 Component/NI
Product group : Specialty Mixtures

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Praxair Canada inc.
1200 – 1 City Centre Drive
Mississauga - Canada L5B 1M2
T 1-905-803-1600 - F 1-905-803-1682
www.praxair.ca

1.4. Emergency telephone number

Emergency number : 1-800-363-0042
Call emergency number 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product.
For routine information, contact your supplier or Praxair sales representative.

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-CA classification

Flam. Gas 1	H220
Liquefied gas	H280
Acute Tox. 4 (Inhalation:gas)	H332
Muta. 1B	H340
Carc. 1A	H350
Repr. 1A	H360
STOT RE 1	H372

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms :



Signal word :

DANGER

Hazard statements :

EXTREMELY FLAMMABLE GAS
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
HARMFUL IF INHALED
MAY CAUSE GENETIC DEFECTS
MAY CAUSE CANCER
May damage fertility or the unborn child
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE

Precautionary statements :

Keep container tightly closed.
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood



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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not breathe gas/vapours

Avoid breathing gas, vapours

Wash exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

IF exposed or concerned: Get medical advice/attention

Call a POISON CENTER/doctor if you feel unwell

Get medical advice/attention if you feel unwell

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

In case of leakage, eliminate all ignition sources

Use and store only outdoors or in a well-ventilated place.

Store locked up

Dispose of contents/container in accordance with container Supplier/owner instructions.

Protect from sunlight when ambient temperature exceeds 52°C (125°F).

Use a back flow preventive device in the piping.

Close valve after each use and when empty.

Do not open valve until connected to equipment prepared for use.

2.3. Other hazards

Other hazards not contributing to the classification : Asphyxiant in high concentrations.

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	CAS No.	% (Vol)	Common Name (synonyms)
Nitrogen	(CAS No) 7727-37-9	12.92 - 63.92	Nitrogen (liquefied) / Nitrogen gas / Nitrogen, liquefied / NITROGEN / Nitrogen, compressed
Hydrogen	(CAS No) 1333-74-0	10 - 15	Hydrogen, compressed / Hydrogen molecule H2 / Hydrgen
Propane	(CAS No) 74-98-6	3 - 8	Propane liquefied / Normal propane / n-Propane / PROPANE
Carbon dioxide	(CAS No) 124-38-9	3 - 6	CARBON DIOXIDE
Isobutane	(CAS No) 75-28-5	3 - 6	2-Methylpropane / Propane, 2-methyl- / ISOBUTANE
Ethane	(CAS No) 74-84-0	1 - 5	Ethyl hydride / ETHANE
Butane	(CAS No) 106-97-8	1 - 5	n-Butane / BUTANE
Propylene	(CAS No) 115-07-1	2 - 4	Propylene / 1-Propene / n-Propene / 1-Propylene / Prop-1-ene
Carbon monoxide	(CAS No) 630-08-0	2 - 4	Carbon monoxide, compressed / Compressed carbon monoxide / Carbon oxide (CO) / Carbon(II) oxide / Carbon oxide
trans-2-Butene	(CAS No) 624-64-6	2 - 4	But-2-ene, trans- / trans-2-Butene / 2-Butene, (2E)- / (E)-But-2-ene / Butene, trans-2- / (E)-2-Butene / trans-2-Butylene / 2-Butene, trans- / 2-Butene,(E)- / Butene, 2-trans-
1,3-Butadiene	(CAS No) 106-99-0	2 - 4	Butadiene / Butadiene, 1,3- / Buta-1,3-diene / Divinyl / Biethylene
Ethylene	(CAS No) 74-85-1	1 - 3	Ethene / Ethylene, compressed / Ethylene, refrigerated liquid
1-Butene	(CAS No) 106-98-9	1 - 3	Butene, 1- / 1-Butylene / But-1-ene
Acetylene	(CAS No) 74-86-2	0.5 - 2	
Hydrogen sulfide	(CAS No) 7783-06-4	0.5 - 2	Hydrogen sulfide (H2S) / Hydrogen sulphide / Sulfur hydride / Sulfureted hydrogen / Dihydrogen sulphide / Hydrogensulfide
Isobutylene	(CAS No) 115-11-7	0.5 - 2	Isobutene / 2-Methylpropene / Propene, 2-methyl- / 1-Propene, 2-methyl- / 2-Methylprop-1-ene / Methylpropene, 2-
Methane	(CAS No) 74-82-8	0.5 - 2	Marsh gas / Natural gas, refrigerated liquid / Methane, compressed
cis-2-Butene	(CAS No) 590-18-1	0.5 - 2	But-2-ene, cis- / 2-Butene, (2Z)- / 2-Butene, (Z)- / (Z)-But-2-ene / Butene, cis-2- / (Z)-2-Butene / cis-2-Butylene / 2-Butene, cis-
Propadiene	(CAS No) 463-49-0	0.5 - 2	Allene / Propadiene, stabilized / Propadiene / Propadiene, 1,2- / Allene, stabilized
Argon	(CAS No) 7440-37-1	0.5 - 2	Argon, compressed
Isopentane	(CAS No) 78-78-4	0.5 - 2	Butane, 2-methyl- / 2-Methylbutane / ISOPENTANE / Methylbutane
n-Pentane	(CAS No) 109-66-0	0.5 - 2	n-Pentane / Normal pentane / PENTANE / Pentane, n-

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Name	CAS No.	% (Vol)	Common Name (synonyms)
Pentene	(CAS No) 109-67-1	0.2 - 0.6	Pent-1-ene / Amylene, .alpha.- / Pentene, 1-
trans-2-Pentene	(CAS No) 646-04-8	0.1 - 0.4	trans-Pent-2-ene / 2-Pentene, (E)- / Pent-2-ene, trans- / trans-2-Pentene / 2-Pentene, (2E)-
2-Methyl-2-butene	(CAS No) 513-35-9	0.1 - 0.4	But-2-ene, 2-methyl- / 2-Butene, 2-methyl- / 2-Methylbut-2-ene / .beta.-Isoamylene / Amylene
cis-2-Pentene	(CAS No) 627-20-3	0.1 - 0.4	.beta.-Amylene-cis / (Z)-Pent-2-ene / 2-Pentene, (2Z)- / 2-Pentene, (Z)- / 2-Pentene, cis-
n-Hexane	(CAS No) 110-54-3	0.05 - 0.2	Hexane, n- / n-Hexane / Normal hexane
Cyclopropane	(CAS No) 75-19-4	0.03 - 0.08	Trimethylene / Cyclopropane, liquefied / Liquefied cyclopropane

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.
- First-aid measures after skin contact : The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately..

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Obtain medical assistance.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Carbon dioxide, Dry chemical, Water spray or fog. Use extinguishing media appropriate for surrounding fire.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

- Fire hazard : **EXTREMELY FLAMMABLE GAS.**
- Explosion hazard : **EXTREMELY FLAMMABLE GAS.** Forms explosive mixtures with air and oxidizing agents.
- Reactivity : No reactivity hazard other than the effects described in sub-sections below.
- Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.

5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with their provincial and local fire code regulations.
- Protection during firefighting : Compressed gas: asphyxiant. Suffocation hazard by lack of oxygen. **DANGER! FLAMMABLE, HIGH PRESSURE GAS.**
- Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
- Other information : Containers are equipped with a pressure relief device. (Exceptions may exist where authorized.).

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : If venting or leaking gas catches fire, do not extinguish flames. Flammable vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device. Ensure adequate air ventilation. Evacuate area. Monitor concentration of released product.

6.2. Methods and materials for containment and cleaning up

6.3. 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

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment.

Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g. wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store only where temperature will not exceed 125°F (52°C). Post "No Smoking/No Open Flames" signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g. NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16.

Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

n-Hexane (110-54-3)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	50 ppm

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n-Hexane (110-54-3)		
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1800 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	500 ppm
Canada (Quebec)	VEMP (mg/m ³)	176 mg/m ³
Canada (Quebec)	VEMP (ppm)	50 ppm
Alberta	OEL TWA (mg/m ³)	176 mg/m ³
Alberta	OEL TWA (ppm)	50 ppm
British Columbia	OEL TWA (ppm)	20 ppm
Manitoba	OEL TWA (ppm)	50 ppm
New Brunswick	OEL TWA (mg/m ³)	176 mg/m ³
New Brunswick	OEL TWA (ppm)	50 ppm
New Foundland & Labrador	OEL TWA (ppm)	50 ppm
Nova Scotia	OEL TWA (ppm)	50 ppm
Nunavut	OEL STEL (mg/m ³)	440 mg/m ³
Nunavut	OEL STEL (ppm)	125 ppm
Nunavut	OEL TWA (mg/m ³)	352 mg/m ³
Nunavut	OEL TWA (ppm)	100 ppm
Northwest Territories	OEL STEL (ppm)	62.5 ppm
Northwest Territories	OEL TWA (ppm)	50 ppm
Ontario	OEL TWA (ppm)	50 ppm
Prince Edward Island	OEL TWA (ppm)	50 ppm
Québec	VEMP (mg/m ³)	176 mg/m ³
Québec	VEMP (ppm)	50 ppm
Saskatchewan	OEL STEL (ppm)	62.5 ppm
Saskatchewan	OEL TWA (ppm)	50 ppm
Yukon	OEL STEL (mg/m ³)	450 mg/m ³
Yukon	OEL STEL (ppm)	125 ppm
Yukon	OEL TWA (mg/m ³)	360 mg/m ³
Yukon	OEL TWA (ppm)	100 ppm
Hydrogen sulfide (7783-06-4)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	1 ppm
USA - ACGIH	ACGIH TLV-STEL (ppm)	5 ppm
USA - OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm
Canada (Quebec)	VECD (mg/m ³)	21 mg/m ³
Canada (Quebec)	VECD (ppm)	15 ppm
Canada (Quebec)	VEMP (mg/m ³)	14 mg/m ³
Canada (Quebec)	VEMP (ppm)	10 ppm
Alberta	OEL Ceiling (mg/m ³)	21 mg/m ³
Alberta	OEL Ceiling (ppm)	15 ppm
Alberta	OEL TWA (mg/m ³)	14 mg/m ³
Alberta	OEL TWA (ppm)	10 ppm
British Columbia	OEL Ceiling (ppm)	10 ppm
Manitoba	OEL STEL (ppm)	5 ppm
Manitoba	OEL TWA (ppm)	1 ppm
New Brunswick	OEL STEL (mg/m ³)	21 mg/m ³
New Brunswick	OEL STEL (ppm)	15 ppm
New Brunswick	OEL TWA (mg/m ³)	14 mg/m ³

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Hydrogen sulfide (7783-06-4)		
New Brunswick	OEL TWA (ppm)	10 ppm
New Foundland & Labrador	OEL STEL (ppm)	5 ppm
New Foundland & Labrador	OEL TWA (ppm)	1 ppm
Nova Scotia	OEL STEL (ppm)	5 ppm
Nova Scotia	OEL TWA (ppm)	1 ppm
Nunavut	OEL Ceiling (mg/m ³)	28 mg/m ³
Nunavut	OEL Ceiling (ppm)	20 ppm
Nunavut	OEL STEL (mg/m ³)	21 mg/m ³
Nunavut	OEL STEL (ppm)	15 ppm
Nunavut	OEL TWA (mg/m ³)	14 mg/m ³
Nunavut	OEL TWA (ppm)	10 ppm
Northwest Territories	OEL STEL (ppm)	15 ppm
Northwest Territories	OEL TWA (ppm)	10 ppm
Ontario	OEL STEL (ppm)	15 ppm
Ontario	OEL TWA (ppm)	10 ppm
Prince Edward Island	OEL STEL (ppm)	5 ppm
Prince Edward Island	OEL TWA (ppm)	1 ppm
Québec	VECD (mg/m ³)	21 mg/m ³
Québec	VECD (ppm)	15 ppm
Québec	VEMP (mg/m ³)	14 mg/m ³
Québec	VEMP (ppm)	10 ppm
Saskatchewan	OEL STEL (ppm)	15 ppm
Saskatchewan	OEL TWA (ppm)	10 ppm
Yukon	OEL STEL (mg/m ³)	27 mg/m ³
Yukon	OEL STEL (ppm)	15 ppm
Yukon	OEL TWA (mg/m ³)	15 mg/m ³
Yukon	OEL TWA (ppm)	10 ppm
Isobutylene (115-11-7)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	250 ppm
Manitoba	OEL TWA (ppm)	250 ppm
New Foundland & Labrador	OEL TWA (ppm)	250 ppm
Nova Scotia	OEL TWA (ppm)	250 ppm
Ontario	OEL TWA (ppm)	250 ppm
Prince Edward Island	OEL TWA (ppm)	250 ppm
Methane (74-82-8)		
British Columbia	OEL TWA (ppm)	1000 ppm
Nunavut	OEL STEL (ppm)	1250 ppm
Nunavut	OEL TWA (ppm)	1000 ppm
Northwest Territories	OEL STEL (ppm)	1250 ppm
Northwest Territories	OEL TWA (ppm)	1000 ppm
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm
cis-2-Butene (590-18-1)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	250 ppm

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cis-2-Butene (590-18-1)		
Manitoba	OEL TWA (ppm)	250 ppm
New Foundland & Labrador	OEL TWA (ppm)	250 ppm
Nova Scotia	OEL TWA (ppm)	250 ppm
Ontario	OEL TWA (ppm)	250 ppm
Prince Edward Island	OEL TWA (ppm)	250 ppm
Isopentane (78-78-4)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	1000 ppm
Alberta	OEL TWA (mg/m ³)	1770 mg/m ³
Alberta	OEL TWA (ppm)	600 ppm
British Columbia	OEL TWA (ppm)	600 ppm
Manitoba	OEL TWA (ppm)	1000 ppm
New Foundland & Labrador	OEL TWA (ppm)	1000 ppm
Nova Scotia	OEL TWA (ppm)	1000 ppm
Nunavut	OEL STEL (ppm)	750 ppm
Nunavut	OEL TWA (ppm)	600 ppm
Northwest Territories	OEL STEL (ppm)	750 ppm
Northwest Territories	OEL TWA (ppm)	600 ppm
Ontario	OEL TWA (ppm)	600 ppm
Prince Edward Island	OEL TWA (ppm)	1000 ppm
Saskatchewan	OEL STEL (ppm)	750 ppm
Saskatchewan	OEL TWA (ppm)	600 ppm
n-Pentane (109-66-0)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	1000 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	2950 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Canada (Quebec)	VEMP (mg/m ³)	350 mg/m ³
Canada (Quebec)	VEMP (ppm)	120 ppm
Alberta	OEL TWA (mg/m ³)	1770 mg/m ³
Alberta	OEL TWA (ppm)	600 ppm
British Columbia	OEL TWA (ppm)	600 ppm
Manitoba	OEL TWA (ppm)	1000 ppm
New Brunswick	OEL STEL (mg/m ³)	2210 mg/m ³
New Brunswick	OEL STEL (ppm)	750 ppm
New Brunswick	OEL TWA (mg/m ³)	1770 mg/m ³
New Brunswick	OEL TWA (ppm)	600 ppm
New Foundland & Labrador	OEL TWA (ppm)	1000 ppm
Nova Scotia	OEL TWA (ppm)	1000 ppm
Nunavut	OEL STEL (mg/m ³)	2213 mg/m ³
Nunavut	OEL STEL (ppm)	750 ppm
Nunavut	OEL TWA (mg/m ³)	1771 mg/m ³
Nunavut	OEL TWA (ppm)	600 ppm
Northwest Territories	OEL STEL (ppm)	750 ppm
Northwest Territories	OEL TWA (ppm)	600 ppm

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n-Pentane (109-66-0)		
Ontario	OEL TWA (ppm)	600 ppm
Prince Edward Island	OEL TWA (ppm)	1000 ppm
Québec	VEMP (mg/m ³)	350 mg/m ³
Québec	VEMP (ppm)	120 ppm
Saskatchewan	OEL STEL (ppm)	750 ppm
Saskatchewan	OEL TWA (ppm)	600 ppm
Yukon	OEL STEL (mg/m ³)	2250 mg/m ³
Yukon	OEL STEL (ppm)	750 ppm
Yukon	OEL TWA (mg/m ³)	1800 mg/m ³
Yukon	OEL TWA (ppm)	600 ppm
Hydrogen (1333-74-0)		
USA - ACGIH	Remark (ACGIH)	Simple asphyxiant
Ethylene (74-85-1)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	200 ppm
USA - ACGIH	Remark (ACGIH)	Asphyxia
Alberta	OEL TWA (mg/m ³)	229 mg/m ³
Alberta	OEL TWA (ppm)	200 ppm
British Columbia	OEL TWA (ppm)	200 ppm
Manitoba	OEL TWA (ppm)	200 ppm
New Foundland & Labrador	OEL TWA (ppm)	200 ppm
Nova Scotia	OEL TWA (ppm)	200 ppm
Nunavut	OEL STEL (ppm)	250 ppm
Nunavut	OEL TWA (ppm)	200 ppm
Northwest Territories	OEL STEL (ppm)	250 ppm
Northwest Territories	OEL TWA (ppm)	200 ppm
Ontario	OEL TWA (ppm)	200 ppm
Prince Edward Island	OEL TWA (ppm)	200 ppm
Saskatchewan	OEL STEL (ppm)	250 ppm
Saskatchewan	OEL TWA (ppm)	200 ppm
1-Butene (106-98-9)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	250 ppm
Manitoba	OEL TWA (ppm)	250 ppm
New Foundland & Labrador	OEL TWA (ppm)	250 ppm
Nova Scotia	OEL TWA (ppm)	250 ppm
Ontario	OEL TWA (ppm)	250 ppm
Prince Edward Island	OEL TWA (ppm)	250 ppm
Propylene (115-07-1)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	500 ppm
Alberta	OEL TWA (mg/m ³)	860 mg/m ³
Alberta	OEL TWA (ppm)	500 ppm
British Columbia	OEL TWA (ppm)	500 ppm
Manitoba	OEL TWA (ppm)	500 ppm
New Foundland & Labrador	OEL TWA (ppm)	500 ppm
Nova Scotia	OEL TWA (ppm)	500 ppm

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Propylene (115-07-1)		
Ontario	OEL TWA (ppm)	500 ppm
Prince Edward Island	OEL TWA (ppm)	500 ppm
Carbon monoxide (630-08-0)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	25 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	55 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	50 ppm
Canada (Quebec)	VECD (mg/m ³)	230 mg/m ³
Canada (Quebec)	VECD (ppm)	200 ppm
Canada (Quebec)	VEMP (mg/m ³)	40 mg/m ³
Canada (Quebec)	VEMP (ppm)	35 ppm
Alberta	OEL TWA (mg/m ³)	29 mg/m ³
Alberta	OEL TWA (ppm)	25 ppm
British Columbia	OEL STEL (ppm)	100 ppm
British Columbia	OEL TWA (ppm)	25 ppm
Manitoba	OEL TWA (ppm)	25 ppm
New Brunswick	OEL TWA (mg/m ³)	29 mg/m ³
New Brunswick	OEL TWA (ppm)	25 ppm
New Foundland & Labrador	OEL TWA (ppm)	25 ppm
Nova Scotia	OEL TWA (ppm)	25 ppm
Nunavut	OEL STEL (mg/m ³)	460 mg/m ³
Nunavut	OEL STEL (ppm)	190 ppm
Nunavut	OEL TWA (mg/m ³)	57 mg/m ³
Nunavut	OEL TWA (ppm)	25 ppm
Northwest Territories	OEL STEL (ppm)	190 ppm
Northwest Territories	OEL TWA (ppm)	25 ppm
Ontario	OEL TWA (ppm)	25 ppm
Prince Edward Island	OEL TWA (ppm)	25 ppm
Québec	VECD (mg/m ³)	230 mg/m ³
Québec	VECD (ppm)	200 ppm
Québec	VEMP (mg/m ³)	40 mg/m ³
Québec	VEMP (ppm)	35 ppm
Saskatchewan	OEL STEL (ppm)	190 ppm
Saskatchewan	OEL TWA (ppm)	25 ppm
Yukon	OEL STEL (mg/m ³)	440 mg/m ³
Yukon	OEL STEL (ppm)	400 ppm
Yukon	OEL TWA (mg/m ³)	55 mg/m ³
Yukon	OEL TWA (ppm)	50 ppm
trans-2-Butene (624-64-6)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	250 ppm
Manitoba	OEL TWA (ppm)	250 ppm
New Foundland & Labrador	OEL TWA (ppm)	250 ppm
Nova Scotia	OEL TWA (ppm)	250 ppm
Ontario	OEL TWA (ppm)	250 ppm
Prince Edward Island	OEL TWA (ppm)	250 ppm

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1,3-Butadiene (106-99-0)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	2 ppm
USA - OSHA	OSHA PEL (TWA) (ppm)	1 ppm
USA - OSHA	OSHA PEL (STEL) (ppm)	5 ppm (see 29 CFR 1910.1051)
Canada (Quebec)	VEMP (mg/m ³)	4.4 mg/m ³
Canada (Quebec)	VEMP (ppm)	2 ppm
Alberta	OEL TWA (mg/m ³)	4.4 mg/m ³
Alberta	OEL TWA (ppm)	2 ppm
British Columbia	OEL TWA (ppm)	2 ppm
Manitoba	OEL TWA (ppm)	2 ppm
New Brunswick	OEL TWA (mg/m ³)	4.4 mg/m ³
New Brunswick	OEL TWA (ppm)	2 ppm
New Foundland & Labrador	OEL TWA (ppm)	2 ppm
Nova Scotia	OEL TWA (ppm)	2 ppm
Nunavut	OEL STEL (ppm)	4 ppm
Nunavut	OEL TWA (ppm)	2 ppm
Northwest Territories	OEL STEL (ppm)	4 ppm
Northwest Territories	OEL TWA (ppm)	2 ppm
Ontario	OEL TWA (ppm)	2 ppm
Prince Edward Island	OEL TWA (ppm)	2 ppm
Québec	VEMP (mg/m ³)	4.4 mg/m ³
Québec	VEMP (ppm)	2 ppm
Saskatchewan	OEL STEL (ppm)	4 ppm
Saskatchewan	OEL TWA (ppm)	2 ppm
Yukon	OEL STEL (mg/m ³)	2750 mg/m ³
Yukon	OEL STEL (ppm)	1250 ppm
Yukon	OEL TWA (mg/m ³)	2200 mg/m ³
Yukon	OEL TWA (ppm)	1000 ppm
Ethane (74-84-0)		
Alberta	OEL TWA (ppm)	1000 ppm
British Columbia	OEL TWA (ppm)	1000 ppm
Nunavut	OEL STEL (ppm)	1250 ppm
Nunavut	OEL TWA (ppm)	1000 ppm
Northwest Territories	OEL STEL (ppm)	1250 ppm
Northwest Territories	OEL TWA (ppm)	1000 ppm
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm
Butane (106-97-8)		
USA - ACGIH	ACGIH TLV-STEL (ppm)	1000 ppm
Canada (Quebec)	VEMP (mg/m ³)	1900 mg/m ³
Canada (Quebec)	VEMP (ppm)	800 ppm
Alberta	OEL TWA (ppm)	1000 ppm
British Columbia	OEL STEL (ppm)	750 ppm
British Columbia	OEL TWA (ppm)	600 ppm
Manitoba	OEL STEL (ppm)	1000 ppm
New Brunswick	OEL TWA (mg/m ³)	1900 mg/m ³

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Butane (106-97-8)		
New Brunswick	OEL TWA (ppm)	800 ppm
New Foundland & Labrador	OEL STEL (ppm)	1000 ppm
Nova Scotia	OEL STEL (ppm)	1000 ppm
Nunavut	OEL STEL (mg/m ³)	2576 mg/m ³
Nunavut	OEL STEL (ppm)	1000 ppm
Nunavut	OEL TWA (mg/m ³)	1901 mg/m ³
Nunavut	OEL TWA (ppm)	800 ppm
Northwest Territories	OEL STEL (ppm)	1250 ppm
Northwest Territories	OEL TWA (ppm)	1000 ppm
Ontario	OEL STEL (ppm)	1000 ppm
Ontario	OEL TWA (ppm)	800 ppm
Prince Edward Island	OEL STEL (ppm)	1000 ppm
Québec	VEMP (mg/m ³)	1900 mg/m ³
Québec	VEMP (ppm)	800 ppm
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm
Yukon	OEL STEL (mg/m ³)	1600 mg/m ³
Yukon	OEL STEL (ppm)	750 ppm
Yukon	OEL TWA (mg/m ³)	1400 mg/m ³
Yukon	OEL TWA (ppm)	600 ppm
Carbon dioxide (124-38-9)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	5000 ppm
USA - ACGIH	ACGIH TLV-STEEL (ppm)	30000 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	9000 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	5000 ppm
Canada (Quebec)	VECD (mg/m ³)	54000 mg/m ³
Canada (Quebec)	VECD (ppm)	30000 ppm
Canada (Quebec)	VEMP (mg/m ³)	9000 mg/m ³
Canada (Quebec)	VEMP (ppm)	5000 ppm
Alberta	OEL STEL (mg/m ³)	54000 mg/m ³
Alberta	OEL STEL (ppm)	30000 ppm
Alberta	OEL TWA (mg/m ³)	9000 mg/m ³
Alberta	OEL TWA (ppm)	5000 ppm
British Columbia	OEL STEL (ppm)	15000 ppm
British Columbia	OEL TWA (ppm)	5000 ppm
Manitoba	OEL STEL (ppm)	30000 ppm
Manitoba	OEL TWA (ppm)	5000 ppm
New Brunswick	OEL STEL (mg/m ³)	54000 mg/m ³
New Brunswick	OEL STEL (ppm)	30000 ppm
New Brunswick	OEL TWA (mg/m ³)	9000 mg/m ³
New Brunswick	OEL TWA (ppm)	5000 ppm
New Foundland & Labrador	OEL STEL (ppm)	30000 ppm
New Foundland & Labrador	OEL TWA (ppm)	5000 ppm
Nova Scotia	OEL STEL (ppm)	30000 ppm
Nova Scotia	OEL TWA (ppm)	5000 ppm

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Carbon dioxide (124-38-9)		
Nunavut	OEL STEL (mg/m ³)	27000 mg/m ³
Nunavut	OEL STEL (ppm)	15000 ppm
Nunavut	OEL TWA (mg/m ³)	9000 mg/m ³
Nunavut	OEL TWA (ppm)	5000 ppm
Northwest Territories	OEL STEL (ppm)	30000 ppm
Northwest Territories	OEL TWA (ppm)	5000 ppm
Ontario	OEL STEL (ppm)	30000 ppm
Ontario	OEL TWA (ppm)	5000 ppm
Prince Edward Island	OEL STEL (ppm)	30000 ppm
Prince Edward Island	OEL TWA (ppm)	5000 ppm
Québec	VECD (mg/m ³)	54000 mg/m ³
Québec	VECD (ppm)	30000 ppm
Québec	VEMP (mg/m ³)	9000 mg/m ³
Québec	VEMP (ppm)	5000 ppm
Saskatchewan	OEL STEL (ppm)	30000 ppm
Saskatchewan	OEL TWA (ppm)	5000 ppm
Yukon	OEL STEL (mg/m ³)	27000 mg/m ³
Yukon	OEL STEL (ppm)	15000 ppm
Yukon	OEL TWA (mg/m ³)	9000 mg/m ³
Yukon	OEL TWA (ppm)	5000 ppm
Isobutane (75-28-5)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	1000 ppm
USA - ACGIH	ACGIH TLV-STEL (ppm)	1000 ppm
Manitoba	OEL STEL (ppm)	1000 ppm
New Foundland & Labrador	OEL STEL (ppm)	1000 ppm
Nova Scotia	OEL STEL (ppm)	1000 ppm
Nunavut	OEL STEL (ppm)	1250 ppm
Nunavut	OEL TWA (ppm)	1000 ppm
Northwest Territories	OEL STEL (ppm)	1250 ppm
Northwest Territories	OEL TWA (ppm)	1000 ppm
Ontario	OEL STEL (ppm)	1000 ppm
Ontario	OEL TWA (ppm)	800 ppm
Prince Edward Island	OEL STEL (ppm)	1000 ppm
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm
Propane (74-98-6)		
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1800 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Canada (Quebec)	VEMP (mg/m ³)	1800 mg/m ³
Canada (Quebec)	VEMP (ppm)	1000 ppm
Alberta	OEL TWA (ppm)	1000 ppm
British Columbia	OEL TWA (ppm)	1000 ppm
Northwest Territories	OEL STEL (ppm)	1250 ppm
Northwest Territories	OEL TWA (ppm)	1000 ppm

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Propane (74-98-6)		
Québec	VEMP (mg/m ³)	1800 mg/m ³
Québec	VEMP (ppm)	1000 ppm
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Use an explosion-proof local exhaust system. Local exhaust and general ventilation must be adequate to meet exposure standards. MECHANICAL (GENERAL): **Inadequate - Use only in a closed system.** Use explosion proof equipment and lighting. Alarm detectors should be used when toxic gases may be released. Product to be handled in a closed system and under strictly controlled conditions. Ensure exposure is below occupational exposure limits (where available). Preferably use only permanent leak-tight installations (e.g. welded pipes). Provide adequate general and local exhaust ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment : Gloves. Face shield. Safety glasses.



Hand protection : Wear work gloves when handling containers. Wear heavy rubber gloves where contact with product may occur.

Eye protection : Wear safety glasses with side shields. Safety eye wear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Select in accordance with the current CSA standard Z94.3, "Industrial Eye and Face Protection", and any provincial regulations, local bylaws or guidelines.

Respiratory protection : Keep self contained breathing apparatus readily available for emergency use. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. **Respiratory protection:** Use respirable fume respirator or air supplied respirator when working in confined space or where local exhaust or ventilation does not keep exposure below TLV. Select in accordance with provincial regulations, local bylaws or guidelines. Selection should be based on the current CSA standard Z94.4, "Selection, Care, and Use of Respirators." Respirators should also be approved by NIOSH and MSHA. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Thermal hazard protection : Wear cold insulating gloves when transfilling or breaking transfer connections.

Other information : **Other protection :** Safety shoes for general handling at customer sites. Metatarsal shoes and cuffless trousers for cylinder handling at packaging and filling plants. Select in accordance with the current CSA standard Z195, "Protective Foot Wear", and any provincial regulations, local bylaws or guidelines. For working with flammable and oxidizing materials, consider the use of flame resistant anti-static safety clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: No data available
Colour	: Colourless.
Odour	: No data available.
Odour threshold	: No data available
pH	: Not applicable.
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable.
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available



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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Vapour pressure	: Not applicable.
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: Water: No data available
Log Pow	: Not applicable.
Log Kow	: Not applicable.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Viscosity, kinematic (calculated value) (40 °C)	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: None.
Flammability (solid, gas)	:

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
Chemical stability	: Stable under normal conditions.
Conditions to avoid	: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Inhalation:gas: HARMFUL IF INHALED.

ATE CA (gases)	12880.92953183 ppmv/4h
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Cyclopropane (75-19-4)	
LC50 inhalation rat (ppm)	22000 ppm/1h

n-Hexane (110-54-3)	
LD50 oral rat	25 g/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (ppm)	48000 ppm/4h

2-Methyl-2-butene (513-35-9)	
LD50 oral rat	700 - 2600 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	> 61000 ppm/4h

Hydrogen sulfide (7783-06-4)	
LC50 inhalation rat (ppm)	356 ppm/4h

Isobutylene (115-11-7)	
LC50 inhalation rat (ppm)	541657 ppm/1h

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n-Pentane (109-66-0)	
LC50 inhalation rat (mg/l)	(Exposure time: 4 h)
LC50 inhalation rat (ppm)	246702 ppm/1h
Hydrogen (1333-74-0)	
LC50 inhalation rat (ppm)	> 15000 ppm/1h
Carbon monoxide (630-08-0)	
LC50 inhalation rat (ppm)	3760 ppm/1h
1,3-Butadiene (106-99-0)	
LC50 inhalation rat (ppm)	220000 ppm/1h
Isobutane (75-28-5)	
LC50 inhalation rat (ppm)	285000 ppm/1h

Skin corrosion/irritation	: Not classified
	pH: Not applicable.
Serious eye damage/irritation	: Not classified
	pH: Not applicable.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: MAY CAUSE GENETIC DEFECTS.
Carcinogenicity	: MAY CAUSE CANCER.
Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

n-Hexane (110-54-3)	
LC50 fish 1	2.54 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
2-Methyl-2-butene (513-35-9)	
EC50 Daphnia 1	3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Hydrogen sulfide (7783-06-4)	
LC50 fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
LC50 fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
Isopentane (78-78-4)	
EC50 Daphnia 1	2.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
n-Pentane (109-66-0)	
LC50 fish 1	9.87 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 fish 2	11.59 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	9.74 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

P-18-26271	
Persistence and degradability	No ecological damage caused by this product.
Cyclopropane (75-19-4)	
Persistence and degradability	No data available.
Hydrogen sulfide (7783-06-4)	
Persistence and degradability	Not applicable for inorganic gases.

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Isobutylene (115-11-7)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
Methane (74-82-8)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
cis-2-Butene (590-18-1)	
Persistence and degradability	No data available.
Propadiene (463-49-0)	
Persistence and degradability	No data available.
Argon (7440-37-1)	
Persistence and degradability	No ecological damage caused by this product.
Isopentane (78-78-4)	
Persistence and degradability	Not established.
Hydrogen (1333-74-0)	
Persistence and degradability	No ecological damage caused by this product.
Ethylene (74-85-1)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
1-Butene (106-98-9)	
Persistence and degradability	Not readily biodegradable.
Propylene (115-07-1)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
trans-2-Butene (624-64-6)	
Persistence and degradability	No data available.
1,3-Butadiene (106-99-0)	
Persistence and degradability	Not readily biodegradable.
Ethane (74-84-0)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
Butane (106-97-8)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
Carbon dioxide (124-38-9)	
Persistence and degradability	No ecological damage caused by this product.
Isobutane (75-28-5)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
Propane (74-98-6)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
Nitrogen (7727-37-9)	
Persistence and degradability	No ecological damage caused by this product.
12.3. Bioaccumulative potential	
P-18-26271	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.
Cyclopropane (75-19-4)	
Log Pow	1.72
Bioaccumulative potential	Refer to section 9.
2-Methyl-2-butene (513-35-9)	
BCF fish 1	(low potential to bioaccumulate)
Hydrogen sulfide (7783-06-4)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	Not applicable.

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Hydrogen sulfide (7783-06-4)	
Log Kow	Not applicable.
Bioaccumulative potential	No data available.
Isobutylene (115-11-7)	
Log Pow	2.35
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Methane (74-82-8)	
Log Pow	1.09
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
cis-2-Butene (590-18-1)	
Log Pow	2.33
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Propadiene (463-49-0)	
Log Pow	1.45
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Argon (7440-37-1)	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.
Isopentane (78-78-4)	
Log Pow	3.2 - 3.3
Bioaccumulative potential	Not established.
n-Pentane (109-66-0)	
Log Pow	3.39
Hydrogen (1333-74-0)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.
Ethylene (74-85-1)	
BCF fish 1	4 - 4.6
Log Pow	1.13
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
1-Butene (106-98-9)	
Log Pow	2.4
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Propylene (115-07-1)	
Log Pow	1.77
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Carbon monoxide (630-08-0)	
Log Kow	Not applicable.
trans-2-Butene (624-64-6)	
Log Pow	2.32
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
1,3-Butadiene (106-99-0)	
BCF fish 1	13 - 19.1
Log Pow	1.99
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Ethane (74-84-0)	
Log Pow	1.81

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Ethane (74-84-0)	
Log Kow	Not applicable.
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Butane (106-97-8)	
Log Pow	2.89
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Carbon dioxide (124-38-9)	
BCF fish 1	(no bioaccumulation)
Log Pow	0.83
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.
Isobutane (75-28-5)	
BCF fish 1	1.57 - 1.97
Log Pow	2.76
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Propane (74-98-6)	
Log Pow	2.36
Log Kow	Not applicable.
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Nitrogen (7727-37-9)	
Log Pow	Not applicable for inorganic gases.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.
12.4. Mobility in soil	
P-18-26271	
Mobility in soil	No data available.
Log Pow	Not applicable.
Log Kow	Not applicable.
Cyclopropane (75-19-4)	
Log Pow	1.72
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Hydrogen sulfide (7783-06-4)	
Mobility in soil	No data available.
Log Pow	Not applicable.
Log Kow	Not applicable.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Isobutylene (115-11-7)	
Log Pow	2.35
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Methane (74-82-8)	
Log Pow	1.09
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
cis-2-Butene (590-18-1)	
Log Pow	2.33
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Propadiene (463-49-0)	
Log Pow	1.45
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Argon (7440-37-1)	
Mobility in soil	No data available.
Log Pow	Not applicable.

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Argon (7440-37-1)	
Log Kow	Not applicable.
Ecology - soil	No ecological damage caused by this product.
Isopentane (78-78-4)	
Log Pow	3.2 - 3.3
n-Pentane (109-66-0)	
Log Pow	3.39
Hydrogen (1333-74-0)	
Mobility in soil	No data available.
Log Pow	Not applicable.
Log Kow	Not applicable.
Ecology - soil	No ecological damage caused by this product.
Ethylene (74-85-1)	
Log Pow	1.13
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
1-Butene (106-98-9)	
Log Pow	2.4
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Propylene (115-07-1)	
Log Pow	1.77
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Carbon monoxide (630-08-0)	
Mobility in soil	No data available.
Log Kow	Not applicable.
trans-2-Butene (624-64-6)	
Log Pow	2.32
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
1,3-Butadiene (106-99-0)	
Log Pow	1.99
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Ethane (74-84-0)	
Mobility in soil	No data available.
Log Pow	1.81
Log Kow	Not applicable.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Butane (106-97-8)	
Log Pow	2.89
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Carbon dioxide (124-38-9)	
Mobility in soil	No data available.
Log Pow	0.83
Log Kow	Not applicable.
Ecology - soil	No ecological damage caused by this product.
Isobutane (75-28-5)	
Log Pow	2.76
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Propane (74-98-6)	
Mobility in soil	No data available.
Log Pow	2.36
Log Kow	Not applicable.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.

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Nitrogen (7727-37-9)	
Mobility in soil	No data available.
Log Pow	Not applicable for inorganic gases.
Log Kow	Not applicable.
Ecology - soil	No ecological damage caused by this product.

12.5. Other adverse effects

Effect on the ozone layer : None.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

TDG

UN-No. (TDG) : UN3161
TDG Primary Hazard Classes : 2.1 - Class 2.1 - Flammable Gas.
Proper shipping name : LIQUEFIED GAS, FLAMMABLE, N.O.S.

ERAP Index : 3 000
Explosive Limit and Limited Quantity Index : 0.125 L

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 3161
Proper Shipping Name (IMDG) : LIQUEFIED GAS, FLAMMABLE, N.O.S.
Class (IMDG) : 2.1 - Flammable gases

IATA

UN-No. (IATA) : 3161
Proper Shipping Name (IATA) : LIQUEFIED GAS, FLAMMABLE, N.O.S.
Class (IATA) : 2

SECTION 15: Regulatory information

15.1. National regulations

Cyclopropane (75-19-4)
Listed on the Canadian DSL (Domestic Substances List)
n-Hexane (110-54-3)
Listed on the Canadian DSL (Domestic Substances List)
trans-2-Pentene (646-04-8)
Listed on the Canadian DSL (Domestic Substances List)
2-Methyl-2-butene (513-35-9)
Listed on the Canadian DSL (Domestic Substances List)
cis-2-Pentene (627-20-3)
Listed on the Canadian DSL (Domestic Substances List)
Pentene (109-67-1)
Listed on the Canadian DSL (Domestic Substances List)
Acetylene (74-86-2)
Listed on the Canadian DSL (Domestic Substances List)

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Hydrogen sulfide (7783-06-4)

Listed on the Canadian DSL (Domestic Substances List)

Isobutylene (115-11-7)

Listed on the Canadian DSL (Domestic Substances List)

Methane (74-82-8)

Listed on the Canadian DSL (Domestic Substances List)

cis-2-Butene (590-18-1)

Listed on the Canadian DSL (Domestic Substances List)

Propadiene (463-49-0)

Listed on the Canadian DSL (Domestic Substances List)

Argon (7440-37-1)

Listed on the Canadian DSL (Domestic Substances List)

Isopentane (78-78-4)

Listed on the Canadian DSL (Domestic Substances List)

n-Pentane (109-66-0)

Listed on the Canadian DSL (Domestic Substances List)

Hydrogen (1333-74-0)

Listed on the Canadian DSL (Domestic Substances List)

Ethylene (74-85-1)

Listed on the Canadian DSL (Domestic Substances List)

1-Butene (106-98-9)

Listed on the Canadian DSL (Domestic Substances List)

Propylene (115-07-1)

Listed on the Canadian DSL (Domestic Substances List)

Carbon monoxide (630-08-0)

Listed on the Canadian DSL (Domestic Substances List)

trans-2-Butene (624-64-6)

Listed on the Canadian DSL (Domestic Substances List)

1,3-Butadiene (106-99-0)

Listed on the Canadian DSL (Domestic Substances List)

Ethane (74-84-0)

Listed on the Canadian DSL (Domestic Substances List)

Butane (106-97-8)

Listed on the Canadian DSL (Domestic Substances List)

Carbon dioxide (124-38-9)

Listed on the Canadian DSL (Domestic Substances List)

Isobutane (75-28-5)

Listed on the Canadian DSL (Domestic Substances List)

Propane (74-98-6)

Listed on the Canadian DSL (Domestic Substances List)

Nitrogen (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

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Cyclopropane (75-19-4)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

n-Hexane (110-54-3)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

trans-2-Pentene (646-04-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Methyl-2-butene (513-35-9)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

cis-2-Pentene (627-20-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Pentene (109-67-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Acetylene (74-86-2)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Hydrogen sulfide (7783-06-4)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
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Isobutylene (115-11-7)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Methane (74-82-8)

Listed on the AICS (Australian Inventory of Chemical Substances)
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cis-2-Butene (590-18-1)

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Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Propadiene (463-49-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
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Argon (7440-37-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Isopentane (78-78-4)

Listed on the AICS (Australian Inventory of Chemical Substances)
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n-Pentane (109-66-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Hydrogen (1333-74-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
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Ethylene (74-85-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
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1-Butene (106-98-9)

Listed on the AICS (Australian Inventory of Chemical Substances)
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Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Propylene (115-07-1)

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Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Listed on INSQ (Mexican National Inventory of Chemical Substances)
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Carbon monoxide (630-08-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
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Listed on the United States TSCA (Toxic Substances Control Act) inventory
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trans-2-Butene (624-64-6)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

1,3-Butadiene (106-99-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
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Listed on the United States TSCA (Toxic Substances Control Act) inventory
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

Ethane (74-84-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Butane (106-97-8)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Carbon dioxide (124-38-9)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

Isobutane (75-28-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
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Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

Propane (74-98-6)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

Nitrogen (7727-37-9)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Date of issue : 26/05/2017

Indication of changes:

Training advice : Users of breathing apparatus must be trained. Ensure operators understand the toxicity hazard.
Ensure operators understand the flammability hazard.

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Safety Data Sheet P-18-26271

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 05-26-2017

Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

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SDS Canada (GHS) - Praxair

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