

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

**Product identifier:** Polymer Grade Propylene**Other means of identification****Common name(s),  
synonym(s):** Propylene, propene, 1-propene**SDS number:** NOVA-0150**Recommended use and restriction on use****Recommended use:** Raw material for chemicals and polymers, fuel gas products.**Restrictions on use:** All uses other than the identified.**Manufacturer/Importer/Supplier/Distributor Information****Manufacturer**

**Company Name:** NOVA Chemicals Olefins LLC  
**Address:** P.O. Box 470  
Geismar, Louisiana, USA 70734  
**Telephone:** Product Information: 1-412-490-4063  
**SDS Information Email:** [msdsemail@novachem.com](mailto:msdsemail@novachem.com)

**Emergency telephone number:**

1-800-561-6682, 1-403-314-8767 (NOVA Chemicals) (24 hours)

1-800-424-9300 (CHEMTREC-USA) (24 hours)

## 2. Hazard(s) identification

**Hazard Classification****Physical Hazards**

Flammable gas

Category 1

Gases under pressure

Liquefied gas

**OSHA hazard(s)**

Simple asphyxiant

**Label Elements****Hazard Symbol:****Signal Word:**

Danger

**Hazard Statement:**

Extremely flammable gas.  
Contains gas under pressure; may explode if heated.  
May displace oxygen and cause rapid suffocation.

**Precautionary Statements:**

<b>Prevention:</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use only outdoors or in a well-ventilated area.
<b>Response:</b>	Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leakage, eliminate all ignition sources.
<b>Storage:</b>	Protect from sunlight. Store in a well-ventilated place.
<b>Disposal:</b>	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
<b>Other hazards which do not result in GHS classification:</b>	Contact with liquefied gas may cause irritation and/or frostbite.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
1-Propene	Propylene	115-07-1	>99.5%

\* All concentrations are percent by weight.

<b>Additional Information:</b>	This product may contain very low levels of Naturally Occurring Radioactive Materials (NORM), which have been identified as Radon 222 (CAS No. 14859-67-7) and its main radioactive decay products, Lead 210 (CAS No. 14255-04-0) and Polonium 210 (CAS No. 13981-52-7). See Section 16 - Further information. This product is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).
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### 4. First-aid measures

<b>Inhalation:</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek medical attention.
<b>Ingestion:</b>	Ingestion of this product is not a likely route of exposure. Do NOT induce vomiting. Seek medical attention.
<b>Skin Contact:</b>	Contact with liquefied gas may cause irritation and/or frostbite. Seek medical attention immediately in the event of frostbite. IF ON SKIN: Gently wash with plenty of soap and water. Thaw frosted parts with lukewarm water. Do not rub affected area. Remove non-adhering contaminated clothing. Do not remove adherent material or clothing. Seek medical attention.
<b>Eye contact:</b>	Contact with liquefied gas may cause irritation and/or frostbite. Seek medical attention immediately in the event of frostbite. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

#### Most important symptoms/effects, acute and delayed

<b>Symptoms:</b>	Frostbite can occur with exposure to liquefied gases. High concentrations reduce available oxygen levels and may cause headache, dizziness, nausea, loss of coordination, difficulty breathing, suffocation, or cardiac rhythm disturbance.
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**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat unconsciousness, hypotension, seizures, cardiac dysrhythmias, and frostbite in the conventional manner. Adrenergic (epinephrine, norepinephrine) and dopaminergic agonists should be avoided during treatment or used with caution (lowest effective dose) because of possible cardiac sensitization by this product mixture. Administer oxygen by mask if there is respiratory distress, any change in level of consciousness, or cardiac rhythm disturbance.

**5. Fire-fighting measures**

**General Fire Hazards:** Extremely flammable liquefied gas. Vapors are heavier than air and may travel to a source of ignition and flash back. **DO NOT ATTEMPT TO EXTINGUISH A GAS FIRE UNLESS LEAK SOURCE CAN BE ISOLATED AND SHUT OFF.** Be aware of possibility of reignition. Vapors may form explosive mixture with air. Consider need for immediate emergency isolation and evacuation. If a pipeline, storage vessel, rail car or tank truck is involved in a fire, **ISOLATE** for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions. Keep containers away from source of heat or fire. Contains gas under pressure; may explode if heated.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Use dry chemical, foam, carbon dioxide (CO<sub>2</sub>), water spray or fog to extinguish. Use water to cool fire-exposed containers and to protect personnel.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Upon combustion, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons.

**Special protective equipment and precautions for fire-fighters**

**Special fire-fighting procedures:** Keep upwind. Keep unauthorized personnel away. Move containers from fire area if you can do so without risk. Fight fire from maximum distance or use unmanned holders or monitor nozzles. Cool containers with flooding quantities of water until well after the fire is out. Do not direct water at source of leak or safety devices as icing may occur. Immediately withdraw in case of fire and container venting or heat discoloration of a container. Let uncontrolled fires burn off. Avoid inhaling any smoke and combustion materials. Remove and isolate contaminated clothing and shoes. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Reference Emergency Response Guidebook No. 115 for additional details and instructions.

**Special protective equipment for fire-fighters:** Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire-fighters' protective clothing provides thermal protection **but only limited chemical protection**.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Isolate area. Keep unauthorized personnel away. Alert stand-by emergency and fire-fighting personnel. Monitor surrounding area for buildup of flammable concentrations in air.

**Methods and material for containment and cleaning** Wear appropriate personal protective equipment. Do not touch or walk through spilled material. In case of leakage, eliminate all ignition sources.

**up:** Keep upwind. Keep out of low areas. Stop leak if safe to do so. All equipment used when handling the product must be grounded. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Keep area isolated until any detectable flammable gas has been fully dispersed.

Small Spills: Isolate spill or leak area for at least 100 meters (330 feet) in all directions.

Large Spills: Consider initial downwind evacuation for at least 800 meters (1/2 mile). Evacuate personnel to upwind of the spill area, and position at a safe distance. Use water spray to reduce gas or divert gas cloud drift.

## 7. Handling and storage

**Precautions for safe handling:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. For additional information on equipment bonding and grounding, refer to the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity". Take special precautions when cold cutting or breaking into lines, or when cleaning and disposing of empty containers. Radioactive decay products may accumulate over time in scale or deposits in processing equipment (e.g. pumps, filters, piping, etc.). Equipment and piping should be checked for possible treatment (decontamination) prior to maintenance or disposal/salvage. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Conditions for safe storage, including any incompatibilities:** Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Only allow access to authorized persons. Store and handle in properly designed pressure vessels and equipment. Store and use away from heat, sparks, open flame, or any other ignition source. Have appropriate extinguishing capability in storage area (e.g. sprinkler system, portable fire extinguishers) and flammable gas detectors. Storage pressure vessels should be above ground and diked. Store away from incompatible materials. Store according to applicable regulations and standards for flammable materials.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
1-Propene	TWA	500 ppm	US. ACGIH Threshold Limit Values, as amended

### Appropriate Engineering Controls

Engineering methods to reduce hazardous exposure are preferred controls. Methods include mechanical ventilation (dilution and local exhaust) process or personal enclosure, remote and automated operation, control of process conditions, leak detection and repair systems, and other process modifications. Ensure all exhaust ventilation systems are discharged to outdoors, away from air intakes and ignition sources. Supply sufficient replacement air to make up for air removed by exhaust systems. Administrative (procedure) controls and use of personal protective equipment may also be required.

**Individual protection measures, such as personal protective equipment**

<b>General information:</b>	Personal protective equipment (PPE) should not be considered a long-term solution to exposure control. Employer programs to properly select, fit, maintain and train employees to use equipment must accompany PPE. Consult a competent industrial hygiene resource, the PPE manufacturer's recommendation, and/or applicable regulations to determine hazard potential and ensure adequate protection.
<b>Eye/face protection:</b>	Safety glasses. Chemical goggles under a full-face shield or respirator are recommended if contact with liquefied gas is possible.
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Wear cold insulating gloves.
<b>Skin and Body Protection:</b>	Wear appropriate clothing to prevent any possibility of skin contact. Wear work clothes with long sleeves and pants. Fire resistant (i.e., Nomex) or natural fiber clothing (i.e., cotton or wool) is recommended. Synthetic clothing can generate static electricity and is not recommended where a flammable vapor release may occur. Wear chemical-resistant safety footwear with good traction to prevent slipping. Static Dissipative (SD) rated footwear is also recommended.
<b>Respiratory Protection:</b>	Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed OEL.
<b>Hygiene measures:</b>	Use effective control measures and PPE to maintain worker exposure to concentrations that are below these limits. Ensure that eyewash stations and safety showers are in close proximity to work locations.

**9. Physical and chemical properties****Appearance**

<b>Physical state:</b>	Gas
<b>Form:</b>	Liquefied gas
<b>Color:</b>	Colorless
<b>Odor:</b>	Faint hydrocarbon odor
<b>Odor Threshold:</b>	23 ppm (detection)
<b>pH:</b>	not applicable
<b>Melting point/freezing point:</b>	-185 °C (-301 °F)
<b>Initial boiling point and boiling range:</b>	-48 °C (-54 °F)
<b>Flash Point:</b>	-108 °C (-162 °F)
<b>Evaporation rate:</b>	not applicable
<b>Flammability (solid, gas):</b>	Extremely flammable.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability Limit - Upper (%):</b>	11 %(V)
<b>Flammability Limit - Lower (%):</b>	2 %(V)
<b>Vapor pressure:</b>	1,158 kPa (25 °C (77 °F))
<b>Vapor density:</b>	1.49 (20 °C (68 °F)) (Air=1)
<b>Density:</b>	1.81 kg/m <sup>3</sup> (20 °C (68 °F))
<b>Relative density:</b>	0.5139 (20 °C (68 °F)) (Water=1)
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	200 mg/l (25 °C (77 °F))
<b>Solubility (other):</b>	Soluble in acetic acid and ethanol
<b>Partition coefficient (n-octanol/water):</b>	1.77
<b>Auto-ignition temperature:</b>	455 °C (851 °F)

**Decomposition temperature:** No data available.  
**Viscosity:** not applicable

## 10. Stability and reactivity

**Reactivity:** Contact with incompatible materials. Sources of ignition. Exposure to heat.

**Chemical Stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** Liquefied gas may explode on contact with hot water (45 °C to 75 °C) (113 °F to 167 °F). May react vigorously with oxidizing agents. Hazardous polymerization not likely to occur except under favorable conditions requiring heat and catalyst.

**Conditions to avoid:** Keep away from heat, sparks and open flame.

**Incompatible Materials:** Strong oxidizing agents. Nitrogen oxides. Nitrates. Perchlorates. Many materials become brittle after contact with liquefied gases and may fail without warning. Carefully select and test equipment, gaskets and hoses periodically to ensure integrity and compatibility.

**Hazardous Decomposition Products:** Upon decomposition, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons.

## 11. Toxicological information

### Information on likely routes of exposure

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

**Ingestion:** Ingestion of this product is not a likely route of exposure.

**Skin Contact:** The liquefied form will cause freezing burns (frostbite).

**Eye contact:** The liquefied form will cause freezing burns (frostbite).

### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** High concentrations reduce available oxygen levels and may cause headache, dizziness, nausea, loss of coordination, difficulty breathing, suffocation, or cardiac rhythm disturbance.

**Ingestion:** No adverse effects due to ingestion are expected.

**Skin Contact:** Frostbite or burns.

**Eye contact:** Frostbite or burns.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

**Oral Product:** Not classified for acute toxicity based on available data.

**Dermal Product:** Not classified for acute toxicity based on available data.

**Inhalation Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity**

**Product:** (Rat, Inhalation - gas, 2 yr): > 4985 ppm (Target Organ(s): nasal cavity)  
(LOAEL) (propylene)

**Skin Corrosion/Irritation**

**Product:** The liquefied form will cause freezing burns (frostbite).

**Serious Eye Damage/Eye Irritation**

**Product:** The liquefied form will cause freezing burns (frostbite).

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** Not classified

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity****In vitro**

**Product:** No data available.

**Components:**

1-Propene

A weak mutagenic response was observed with *Salmonella typhimurium* strains TA1535 exposed to propylene in the presence of S9 mix but not in the absence of S9.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Not classified

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Not classified. In the nasal cavity, propylene induced nasal lesions of relatively mild nature and relatively few animals were affected.

**Aspiration Hazard**

**Product:** not applicable

**Other effects:**

Propylene that is inhaled is largely exhaled unchanged. A small fraction may be metabolized and transported in blood as propylene oxide. There is no known health effect found to be associated with this metabolism in 2-year cancer studies or in studies of potential adverse genetic effects.



## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

### Persistence and Degradability

#### Biodegradation

**Product:** Results of distribution modeling show that chemical constituents of streams in the Propylene Streams Category will partition primarily to the air compartment, with a negligible amount partitioning to water. In the air, these constituents have the potential to rapidly degrade through indirect photolytic processes mediated primarily by hydroxyl radicals. This is expected to be the dominant route of loss and degradation process for constituents of these streams. Aqueous photolysis and hydrolysis will not contribute to the transformation of category constituents in aquatic environments because they are either poorly or not susceptible to these reactions.

Although the biodegradability of streams in this category has not been evaluated with standard testing procedures because of their high volatility, studies have demonstrated that the predominant category constituents can be degraded by bacteria isolated from soil and surface water samples.

Biodegradation is unlikely to contribute to the overall degradation of constituents from these streams because they tend to partition to the air compartment. Propylene will degrade rapidly in air; with a calculated atmospheric half-life range of 4.9 hours.

#### BOD/COD Ratio

**Product:** No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

**Product:** Not expected to bioaccumulate.

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** 1.77

**Mobility in soil:** Subject to microbial degradation.

**Other adverse effects:** No data available.



**13. Disposal considerations**

<b>Disposal instructions:</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Waste generator is advised to carefully consider hazardous properties and control measures needed for other materials that may be found in the waste.
<b>Contaminated Packaging:</b>	Check local, federal and state environmental regulations prior to disposal.

**14. Transport information****DOT**

UN number or ID number:	UN 1077
UN Proper Shipping Name:	Propylene
Shipping Name Continued:	Not Odorized
Transport Hazard Class(es)	
Class:	2.1
Label(s):	2.1
Packing Group:	—
Marine Pollutant:	No
Special precautions for user:	Reference Emergency Response Guidebook No. 115, latest revision.

**15. Regulatory information****US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Gas under pressure, Simple asphyxiant

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting**

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
1-Propene	10000 lbs	25000 lbs.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
1-Propene	10000 lbs
Propane	10000 lbs

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations****US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**Inventory Status**

Canada DSL Inventory List: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

**16. Other information, including date of preparation or last revision****Issue Date:** 05/21/2024**Revision Information:** 05/21/2024: SDS Update – phrase edits  
03/13/2020: SDS Update – phrase edits  
01/02/2020: SDS Update**Version #:** 2.2**Abbreviations and acronyms:** ACC = American Chemistry Council; ACGIH = American Conference of Governmental Industrial Hygienists; BOD = Biochemical Oxygen Demand; C = Ceiling; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; COD = Chemical Oxygen Demand; DOT = Department of Transportation; DSL = Domestic Substances List; EC50 = Effective Concentration 50%; EPA = Environmental Protection Agency; GHS = Globally Harmonized System for the Classification and Labelling of Chemicals; HPV = High Production Volume; IARC = International Agency for Research on Cancer; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; PMCC = Pensky-Martens Closed Cup; PPE = Personal Protective Equipment; RCRA = Resource Conservation and Recovery Act; REL = Recommended Exposure Limit; SARA = Superfund Amendments and Reauthorization Act; SCBA = Self Contained Breathing Apparatus; SDS = Safety Data Sheet; STEL = Short Term Exposure Limit; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average**Further Information:** For additional information on equipment bonding and grounding, refer to the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity".**Naturally Occurring Radioactive Material (NORM):** This information is given to call attention to the issue of Naturally Occurring Radioactive Material (NORM) contamination. Industry experience has shown that this product may contain small amounts of Radon-222 (Rn-222) and its radioactive decay products.

Radon-222 is a naturally occurring radioactive gas that has been found to be a contaminant in natural gas. During processing, Rn-222 tends to be concentrated in the liquefied petroleum gas stream and in product streams having a similar boiling point range. Although Rn-222 levels in this product do not present any direct radon exposure, customers should be aware of the potential for buildup of Rn-222 decay products within their processing streams. The concentration of Rn-222 decay products in processing equipment (e.g. pumps, filters, piping, etc.) may accumulate to a point where gamma radiation is detected outside of this equipment during normal operations.

Field studies quoted in the literature, and those conducted by company

personnel, have not shown any conditions, which subject workers to cumulative exposures that may exceed regulated limits. Equipment emitting gamma radiation should be presumed to be internally contaminated with alpha-emitting decay products (i.e. Lead-210, Polonium-210). These decay products may be a health hazard if inhaled or ingested. Equipment and piping should be checked for possible treatment (decontamination) prior to maintenance or disposal/salvage.

Protective equipment (e.g. coveralls, gloves, and a respirator with HEPA filters, or supplied air) should be worn by personnel entering a vessel or working on contaminated process equipment to prevent skin contamination, ingestion, or inhalation of any NORM contaminated residue. Airborne contamination may be minimized by handling contaminated materials in a wet state.

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