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SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

1. Identification	
Product identifier:	Propylene - Chemical Grade
Other means of identification Common name(s),	C3 Product; 1-Propylene, 1-Propene, Methylethylene
synonym(s): SDS number:	NOVA-0016
Recommended use and restrictions on use: All use	i ction on use naterial for chemicals and polymers, fuel gas products. as other than the identified.
Manufacturer/Importer/Supp	ier/Distributor Information
Manufacturer Company Name: Address: Telephone: SDS Information Email:	NOVA Chemicals P.O. Box 2518, Station M Calgary, Alberta, Canada T2P 5C6 Product Information: 1-412-490-4063 msdsemail@novachem.com
Emergency telephone number 1-800-561-6682, 1-403-314-	∍r: 3767 (NOVA Chemicals) (24 hours)
2. Hazard(s) identification	
Hazard Classification Accord Physical Hazards	ing to Hazardous Products Regulations
Gases under pressur	e Liquefied gas
Simple asphyxiant	Category 1
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	:
Prevention:	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.
SDS_CA	1/

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Response:	Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leakage, eliminate all ignition sources.
Storage:	Protect from sunlight. Store in a well-ventilated place.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
Other hazards which do not result in GHS classification:	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	91.8 - 98.8%
Propane	Dimethylmethane	74-98-6	1.1 - 8.9%

* All concentrations are percent by weight.

Additional Information: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
Hazardous Products Regulations, 2015.

4. First-aid measures Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek medical attention. Ingestion: Ingestion of this product is not a likely route of exposure. Do NOT induce vomiting. Seek medical attention. **Skin Contact:** 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. Eye contact: 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 Symptoms: Frostbite, headache, dizziness, drowsiness, suffocation, nausea, heartbeat irregularities. 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. Vapours may travel considerable distance 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. Vapours 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 possibly ruptured or involved in a fire, ISOLATE for 1600 metres (1 mile) in all directions; also, consider initial evacuation for 1600 metres (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) extingu	lishing media
Suitable extinguishing media:	Use dry chemical, foam, carbon dioxide (CO2), water spray or fog to extinguish. Use water to cool fire-exposed containers and to protect personnel.
Unsuitable extinguishing media:	Direct addition of water (or any other room temperature liquid) to the liquefied gas will cause a BLEVE (boiling liquid expanding vapour explosion).
Specific hazards arising from the chemical:	Upon combustion, this product emits carbon monoxide, carbon dioxide, low molecular weight hydrocarbons.
Special protective equipment and	d 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 discolouration of a container. Let uncontrolled fires burn off. Avoid inhaling any smoke and combustion materials. Remove and isolate contaminated clothing and shoes. Prevent run-off 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	8
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
up:Wear appropriate personal protective equipment. Do not touch or walk
through spilled material. In case of leakage, eliminate all ignition sources.
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 run-
off 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 metres (330 feet) in all directions.



Large Spills: Consider initial downwind evacuation for at least 800 metres (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. Use only outdoors or in a well-ventilated area. 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. Wear protective gloves/protective clothing/eye protection/face protection. Conditions for safe storage, Protect from sunlight. Store in a well-ventilated place. Keep container tightly including any closed. Only allow access to authorized persons. Store and handle in incompatibilities: 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. Inspect vents during winter conditions for vapour ice buildup.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

In the ACGIH TLVs® and BEIs® book, propane (CAS# 74-98-6) has been identified as being an "Explosion hazard" and "Simple asphyxiant". Please refer to the ACGIH TLVs® and BEIs® book, latest edition, for additional information.

Chemical Identity	type	Exposure Limit Values		Source
1-Propene	TWA	500 ppm	860 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
1-Propene	TWA	500 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
1-Propene	TWA	500 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
1-Propene	TWA	500 ppm		Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
1-Propene	TWA	500 ppm		US. ACGIH Threshold Limit Values, as amended
Propane	TWA	1,000 ppm		Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
Propane	TWA	1,000 ppm	1,800 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

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Propane	IDLH	2,100 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Appropriate Engineering Controls	Engine Metho or pers condit modifi outdoo replac Admin equipr	eering methods to ds include mecha sonal enclosure, re ons, leak detectio cations. Ensure al ors, away from air ement air to make istrative (procedur nent may also be	reduce hazardous exposure are preferred controls. nical ventilation (dilution and local exhaust) process emote and automated operation, control of process in and repair systems, and other process exhaust ventilation systems are discharged to intakes and ignition sources. Supply sufficient up for air removed by exhaust systems. re) controls and use of personal protective required.
Individual protection measure	es, such as	personal protec	tive equipment
General information:	Person solutic mainta Consu recom potent	nal protective equi n to exposure cor nin and train emplo It a competent inc mendation, and/ou ial and ensure add	pment (PPE) should not be considered a long-term trol. Employer programs to properly select, fit, oyees to use equipment must accompany PPE. ustrial hygiene resource, the PPE manufacturer's applicable regulations to determine hazard equate protection.
Eye/face protection:	Safety recom	glasses. Chemica mended if contact	al goggles under a full-face shield or respirator are with liquefied gas is possible.
Skin Protection Hand Protection:	Wear	protective gloves.	Wear cold insulating gloves.
Skin and Body Protection:	Wear work of natura clothin flamm footwe	appropriate clothir lothes with long s l fibre clothing (i.e g can generate st able vapour releas ar with good tract ar is also recomm	ng to prevent any possibility of skin contact. Wear eeves and pants. Fire resistant (i.e., Nomex) or ., cotton or wool) is recommended. Synthetic atic electricity and is not recommended where a se may occur. Wear chemical-resistant safety ion to prevent slipping. Static Dissipative (SD) rated hended.
Respiratory Protection:	Suppli conce	ed air breathing a ntrations are low o	oparatus must be used when oxygen r if airborne concentrations exceed OEL.
Hygiene measures:	Use ef conce and sa	fective control me ntrations that are l afety showers are	asures and PPE to maintain worker exposure to below these limits. Ensure that eyewash stations in close proximity to work locations.

9. Physical and chemical properties

Appearance	
Physical state:	Gas
Form:	Liquefied gas
Colour:	Colourless
Odour:	Faint hydrocarbon odour
Odour Threshold:	23 ppm (propylene), (detection)
pH:	not applicable
Melting point/freezing point:	-185 °C (-301 °F) (propylene)
Initial boiling point and boiling range:	-48 °C (-54 °F) (propylene)
Flash Point:	-108 °C (-162 °F)
Evaporation rate:	not applicable
Flammability (solid, gas):	Extremely flammable.
Upper/lower limit on flammability or explosi-	ve limits
Flammability limit - upper (%):	11 %(V) (propylene)

Flammability limit - lower(%):	2 %(V) (propylene)
Vapour pressure:	1,158 kPa (25 °C (77 °F)) (propylene)
Vapour density:	1.49 (20 °C (68 °F)) (Air=1) (propylene)
Density:	1.81 kg/m3 (20 °C (68 °F)) (propylene)
Relative density:	0.5139 (20 °C (68 °F)) (propylene, liquefied) (Water=1)
Solubility(ies)	
Solubility in water:	200 mg/l (25 °C (77 °F)) (propylene)
Solubility (other):	Soluble in acetic acid and ethanol (propylene)
Partition coefficient (n-octanol/water):	1.77 (propylene)
Auto-ignition temperature:	455 °C (851 °F) (propylene)
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 favourable 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		

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).		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:	Headache, drowsiness, dizziness, nausea, heartbeat irregularities. Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.	
Ingestion: No adverse effects due to ingestion are expected.		No adverse effects due to ingestion are expected.	
	Skin Contact:	Frostbite.	
	Eye contact:	Frostbite.	

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)
Skin Corrosion/Irritation Product:	The liquefied form will cause freezing burns (frostbite).
Serious Eye Damage/Eye Irritat Product:	ion The liquefied form will cause freezing burns (frostbite).
Respiratory or Skin Sensitization Product:	on No data available.
Carcinogenicity Product:	Not classified
IARC Monographs on the Evalu No	ation of Carcinogenic Risks to Humans: carcinogenic components identified
US. National Toxicology Progra No	am (NTP) Report on Carcinogens: carcinogenic components identified
ACGIH Carcinogen List: No	carcinogenic components identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
Components: 1-Propene	A weak mutagenic response was observed with <i>Salmonella typhimurium</i> 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 Product:	- Single Exposure Not classified
Specific Target Organ Toxicity Product:	 Repeated Exposure Not classified. In the nasal cavity, propylene induced nasal lesions of relatively mild nature and relatively few animals were affected.
Aspiration Hazard Product: SDS_CA	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 aquat	ic 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	No data availabla
	INU UALA AVAIIANIE.
Bioaccumulative Potential Bioconcentration Easter (B	CE)
Product:	Not expected to bioaccumulate.

Partition Coefficient n-octanol / water (log Kow) **Product:** 1.77 (propylene) Mobility in Soil: Low potential. Subject to microbial degradation. Other Adverse Effects: No data available. 13. Disposal considerations **Disposal instructions:** 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. **Contaminated Packaging:** Check local, federal and provincial environmental regulations prior to disposal. 14. Transport information TDG UN number or ID number: UN 1075 UN Proper Shipping Name: PETROLEUM GASES, LIQUEFIED Shipping Name Continued: (propylene) Not Odorized Class 2.1 Packing Group Label(s) 2.1 Subsidiary risk label Reference Emergency Response Guidebook No. 115. latest Special precautions for user: revision. 15. Regulatory information **Canada Federal Regulations** List of Toxic Substances (CEPA, Schedule 1) Not regulated Export Control List (CEPA 1999, Schedule 3) Not regulated National Pollutant Release Inventory (NPRI) Canada. Canadian Environmental Protection Act (CEPA). National Pollutant Release Inventory (NPRI) (Parts 1-4) NPRI 1-Propene Propane Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional **Reporting Requirements** NPRI PT5 1-Propene Propane **Greenhouse Gases** Not regulated **Precursor Control Regulations** Not regulated Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements Not regulated

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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, includ	ling date of preparation or last revision
Issue Date:	04/05/2023
Revision Information:	04/05/2023: SDS Update – OEL updates, section 9, section 11, section 12, section 15 edits, phrase edits 12/11/2019: SDS Update
Version #:	8.1
Abbreviations and acronyms:	ACGIH = American Conference of Governmental Industrial Hygienists; BOD = Biochemical Oxygen Demand; CAS = Chemical Abstracts Service; CEPA = Canadian Environmental Protection Act; COD = Chemical Oxygen Demand; DSL = Domestic Substances List; EC50 = Effective Concentration 50%; EPA = Environmental Protection Agency; GHS = Globally Harmonized System for the Classification and Labelling of Chemicals; IARC = International Agency for Research on Cancer; IDLH = Immediately Dangerous to Life or Health; Kow = Octanol/water partition coefficient; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; LEL = Lower Explosive Limit; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OEL = Occupational Exposure Limit; OSHA = Occupational Safety and Health Administration; PNOC = Particulates Not Otherwise Classified; PPE = Personal Protective Equipment; REL = Recommended Exposure Limit; SCBA = Self Contained Breathing Apparatus; SDS = Safety Data Sheet; STEL = Short Term Exposure Limit; TDG = Transportation of Dangerous Goods; 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



Disclaimer:

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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