

Version: 8.0 Date of previous report version: 03/18/2024 Generation date: 03/26/2025

# SAFETY DATA SHEET

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

Product identifier: B	Butene-2 (SCRS)
Other means of identification	
	iquefied Petroleum Gas (butylenes); Raffinate III (Butene-2); Spent butene-
	SCRS; St. Clair Raffinate III Butene Stream
SDS humber.	
Recommended use and restriction Recommended use: Petroche Restrictions on use: All uses	mical industry: Raw material.
Manufacturer/Importer/Supplier	/Distributor Information
Manufacturer	
Company Name:	NOVA Chemicals
Address:	P.O. Box 2518, Station M
Telephone:	Calgary, Alberta, Canada T2P 5C6 Product Information: 1-412-490-4063
SDS Information Email:	msdsemail@novachem.com
1-800-424-9300 (CHEMTREC)	67 (NOVA Chemicals) (24 hours)
1-800-561-6682, 1-403-314-876 1-800-424-9300 (CHEMTREC) 2. Hazard(s) identification	67 (NOVA Chemicals) (24 hours) (24 hours)
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1-800-561-6682, 1-403-314-876 1-800-424-9300 (CHEMTREC) 2. Hazard(s) identification Hazard Classification According Physical Hazards Flammable gas Gases under pressure Simple asphyxiant Health Hazards Germ Cell Mutagenicity	37 (NOVA Chemicals) (24 hours) (24 hours)          g to Hazardous Products Regulations         Category 1A         Liquefied gas         Category 1         Category 1B
1-800-561-6682, 1-403-314-876 1-800-424-9300 (CHEMTREC) 2. Hazard(s) identification Hazard Classification According Physical Hazards Flammable gas Gases under pressure Simple asphyxiant Health Hazards Germ Cell Mutagenicity Carcinogenicity	87 (NOVA Chemicals) (24 hours) (24 hours) <b>g to Hazardous Products Regulations</b> Category 1A Liquefied gas Category 1 Category 1B Category 1A
1-800-561-6682, 1-403-314-876 1-800-424-9300 (CHEMTREC) 2. Hazard(s) identification Hazard Classification According Physical Hazards Flammable gas Gases under pressure Simple asphyxiant Health Hazards Germ Cell Mutagenicity Carcinogenicity Environmental Hazards Acute hazards to the ac	S7 (NOVA Chemicals) (24 hours)         (24 hours)         g to Hazardous Products Regulations         Category 1A         Liquefied gas         Category 1         Category 1B         Category 1A         Category 1B         Category 1A         Category 3
1-800-561-6682, 1-403-314-876 1-800-424-9300 (CHEMTREC) 2. Hazard(s) identification Hazard Classification According Physical Hazards Flammable gas Gases under pressure Simple asphyxiant Health Hazards Germ Cell Mutagenicity Carcinogenicity Environmental Hazards Acute hazards to the ac environment Chronic hazards to the	S7 (NOVA Chemicals) (24 hours)         (24 hours)         g to Hazardous Products Regulations         Category 1A         Liquefied gas         Category 1         Category 1B         Category 1A         Category 1B         Category 1A         Category 3



Signal Word:	Danger
Hazard Statement:	Extremely flammable gas. Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation. May cause genetic defects. May cause cancer. Harmful to aquatic life with long lasting effects.
Precautionary Statements:	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/ protective clothing/ eye protection/ face protection. Avoid release to the environment.
Response:	IF exposed or concerned: Get medical attention. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leakage, eliminate all ignition sources.
Storage:	Store locked up. Protect from sunlight. Store in a well-ventilated place.
Disposal:	Dispose of contents and container in accordance with local 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 (%)*
2-Butene	Butylene	107-01-7	90 - 97%
n-Butane	Butane	106-97-8	2 - 6%
1-Butene	Butene-1	106-98-9	0.5 - 2%
Propane	Dimethylmethane	74-98-6	0 - 1%
1,3-Butadiene	Vinylethylene	106-99-0	0 - 0.2%

\* All concentrations are percent by weight.

Additional Information:	This product is considered hazardous by the Hazardous Products
	Regulations.

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

4. First-aid measures

clothing. Do not remove adherent material or clothing. Seek medical attention.

Contact with liquefied gas may cause irritation and/or frostbite. Seek Eye contact: 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 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.

#### Indication of immediate medical attention and special treatment needed

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

#### 5. Fire-fighting measures

**General Fire Hazards:** Extremely flammable liquefied gas. Vapours 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. Vapours may form explosive mixture with air. Consider need for immediate emergency isolation and evacuation. If tank, rail car or tank truck is 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) extinguishing 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	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 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
SDS_CA	3/11

the chemical:



	Generation date: 03/20/2025
	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 <b>but</b> <b>only limited chemical protection</b> .
6. Accidental release measure	S
Personal precautions, protective equipment and emergency procedures:	Wear appropriate personal protective equipment. 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:	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:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. 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. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities:	Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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. 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, n-butane (CAS# 106-97-8) (as Butane, isomers) and propane (CAS# 74-98-6) have been identified as being an "Explosion hazard". Propane (CAS# 74-98-6) has also been identified as a "Simple asphyxiant". Please refer to the ACGIH TLVs® and BEIs® book, latest edition, for additional information.

Chemical Identity	type	Exposure Limit	Values	Source
2-Butene	TWA	250 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
2-Butene	TWA	250 ppm		US. ACGIH Threshold Limit Values, as amended
n-Butane	TWA	1,000 ppm		Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
n-Butane	STEL	1,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
n-Butane	TWA	800 ppm	1,900 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
n-Butane	STEL	1,000 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
n-Butane	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended
n-Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
n-Butane	IDLH	1,600 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
1-Butene	TWA	250 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
1-Butene	TWA	250 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
Propane	IDLH	2,100 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
1,3-Butadiene	TWA	2 ppm	4.4 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
1,3-Butadiene	TWA	2 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
1,3-Butadiene	TWA	2 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
1,3-Butadiene	TWA	2 ppm	4.4 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
1,3-Butadiene	TWA	2 ppm		US. ACGIH Threshold Limit Values, as amended
1,3-Butadiene	IDLH	2,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

#### **Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
1,3-Butadiene (1,2- Dihydroxy-4-(N- acetylcysteinyl)-butane: Sampling time: End of shift.)	2.5 mg/l (Urine)	ACGIH BEI
1,3-Butadiene(Mixture of N- 1- and N-2- (hydroxybutenyl)valine hemoglobin (Hb) adducts: Sampling time: Not critical.)	2.5 pmol/g (Blood)	ACGIH BEI

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 (PPE)

General information:	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.
Eye/face protection:	Safety glasses. Chemical goggles under a full-face shield or respirator are recommended if contact with liquefied gas is possible.
Skin Protection Hand Protection:	Wear cold insulating gloves.
Skin and Body Protection:	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 fibre clothing (i.e., cotton or wool) is recommended. Synthetic clothing can generate static electricity and is not recommended where a flammable vapour release may occur. Wear chemical-resistant safety footwear with good traction to prevent slipping. Static Dissipative (SD) rated footwear is also recommended.
Respiratory Protection:	Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators or IDLH levels.
Hygiene measures:	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	
Physical state:	Gas
Form:	Liquefied gas
Colour:	Colourless
Odour:	Odourless, Faint hydrocarbon odour

Odour Threshold:	No data available.
Melting point/freezing point:	-139 °C (-218 °F) (2-Butene)
Initial boiling point and boiling range:	3.7 °C (38.7 °F) (2-Butene)
Flammability:	Extremely flammable.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	10 %(V) (Butenes)
Flammability limit - lower(%):	1.6 %(V) (Butenes)
Flash Point:	-73 °C (-99 °F) (ASTM D56 (Tag (Closed Cup))) (2- Butene)
Auto-ignition temperature:	324 °C (615 °F) (2-Butene)
Decomposition temperature:	No data available.
pH:	not applicable
Kinematic viscosity:	not applicable
Solubility(ies)	
Solubility in water:	Practically insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	2.3 (2-Butene)
Vapour pressure:	28 psia (21 °C (70 °F))
Evaporation rate:	No data available.
Density:	600 kg/m3 (2-Butene)
Relative density:	0.6 (20 °C (68 °F)) (Water=1) (2-Butene)
Vapour density: Particle characteristics	1.9 (0 °C (32 °F)) (Air=1) (estimated)
Particle Size:	No data available.
Other information	
Explosive properties:	No data available.

## 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 acids. Strong oxidizing agents. 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. Frostbite or burns. Eye contact: 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: No data available. **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: May cause cancer. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: 1,3-Butadiene Overall evaluation: 1. Carcinogenic to humans. US. National Toxicology Program (NTP) Report on Carcinogens: 1,3-Butadiene Known To Be Human Carcinogen. **ACGIH Carcinogen List:** 1,3-Butadiene Group A2: Suspected human carcinogen.

#### Germ Cell Mutagenicity

In vitro Product:	May cause genetic defects.	
In vivo Product:	May cause genetic defects.	
Reproductive toxicity Product:	Not classified.	
Specific Target Organ Tox Product:	icity - Single Exposure No data available.	
Specific Target Organ Toxicity - Repeated ExposureProduct:Not classified.		
Aspiration Hazard Product:	not applicable	
Other effects:	No data available.	

## 12. Ecological information

#### Ecotoxicity:

Acute hazards to the aquatic environment:	
Fish Product:	Harmful to aquatic life.
Aquatic Invertebrates Product:	Harmful to aquatic life.
Toxicity to aquatic plants Product:	Harmful to aquatic life.
Chronic hazards to the aquatic environment:	
Fish Product:	Harmful to aquatic life with long lasting effects.
Aquatic Invertebrates Product:	Harmful to aquatic life with long lasting effects.
Toxicity to aquatic plants Product:	Harmful to aquatic life with long lasting effects.
Persistence and Degradability	
Biodegradation Product:	Components are likely to degrade in air within minutes to hours. Butene-2 will degrade rapidly over time in air with a calculated half-life of 2.3 to 3 hours.
BOD/COD Ratio Product:	No data available.

Bioaccumulative Potential Bioconcentration Factor (BC Product:	CF) Bioconcentration Factor (BCF): 12 (estimated) (2-Butene)	
Partition Coefficient n-octanol / water (log Kow)Product:2.3 (2-Butene)		
Mobility in Soil:	Low potential.	
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		
<b>TDG</b> UN number or ID number: UN Proper Shipping Name: Shipping Name Continued: Class Packing Group Label(s) Special precautions for user:	UN 1075 LIQUEFIED PETROLEUM GASES (butylene) Not Odorized 2.1 – 2.1 Reference Emergency Response Guidebook No. 115, latest revision.	
15. Regulatory information Canada Federal Regulations		
List of Toxic Substances (CEF Chemical Identity 1,3-Butadiene Methane	PA, Schedule 1) <u>Name on List:</u> 1,3-Butadiene Methane	

Export Control List (CEPA 1999, Schedule 3) Not regulated

**Greenhouse Gases** 

Chemical IdentityName on List:MethaneMethane

Precursor Control Regulations Not regulated

Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements Not regulated

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:	03/26/2025
Revision Information:	03/26/2025: SDS Update – GHS classification change, phrase edits 03/18/2024: SDS Update – Emergency response telephone number updated, composition edits, OEL updates, section 15 updates, phrase edits 03/02/2020: SDS Update
Version #:	8.0
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".
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