SAFETY DATA SHEET

1. Identification

Product identifier: Multi Purpose Spray

Other means of identification: METALON SPRAY

SDS number:
RE1000021869

Recommended restrictions

Product Use: Coating
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name:	PROFESSIONAL PRODUCTS CANADA INC. o/a METALON PRODUCTS
Address:	7-1110 HERITAGE ROAD BURLINGTON, ONTARIO L9L 4X9
Telephone:	905-332-0333
Fax:	

24 HR. Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Gases under pressure	Compressed gas

Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Skin sensitizer	Category 1B
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1A

Environmental Hazards

Acute hazards to the aquatic environment	Category 2

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement: Contains gas under pressure; may explode if heated.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
May cause cancer.
Toxic to aquatic life.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

Storage: Store locked up. Protect from sunlight. Store in a well-ventilated place.

Disposal: 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.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Trichloroethylene		79-01-6	60 - 80%
Tetradecane, chloro derivs.		198840-65-2	5 - 10%
Distillates (petroleum), hydrotreated middle		64742-46-7	5 - 10%
Distillates (petroleum), solvent-refined heavy paraffinic		64741-88-4	1 - 5%
Carbon dioxide		124-38-9	1 - 5%
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts		68584-23-6	1 - 5%
Sulfonic acids, petroleum, calcium salts		61789-86-4	0.5 - 1.5%
Proprietary			0.1 - 1%
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts		70024-69-0	0.1 - 1%
Proprietary			0.1 - 1%
Carbonic acid calcium salt (1:1)		471-34-1	0.1 - 1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Stop flow of gas. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

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

Specific hazards arising from the chemical: Pressurized container may explode when exposed to heat or flame.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities: Store locked up. Protect from sunlight. Store in a cool place. Aerosol Level 1

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Trichloroethylene	TWA	50 ppm 269 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
Trichloroethylene	STEL	25 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Trichloroethylene	TWA	10 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (08 2008)
Trichloroethylene	8 HR ACL	50 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Trichloroethylene	STEL	25 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
	STEL	25 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (08 2008)
Trichloroethylene	TWA	50 ppm 269 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	STEL	200 ppm 1,070 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	STEL	100 ppm 537 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
	15 MIN ACL	100 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	TWA	10 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Ethene, 1,1,2-trichloro-	TWA	10 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	25 ppm	US. ACGIH Threshold Limit Values (2008)
Distillates (petroleum), hydrotreated middle - Mist.	STEL	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
	TWA	5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Distillates (petroleum), hydrotreated middle	8 HR ACL	5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Distillates (petroleum), hydrotreated middle - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Distillates (petroleum), hydrotreated middle - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)

Distillates (petroleum), hydrotreated middle - Inhalable fraction.	TWA	5 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2014)
	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Distillates (petroleum), hydrotreated middle - Mist.	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Distillates (petroleum), hydrotreated middle - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	STEL	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Distillates (petroleum), solvent-refined heavy paraffinic	8 HR ACL	5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	TWA	0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Distillates (petroleum), solvent-refined heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	15 MIN ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Distillates (petroleum), solvent-refined heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Distillates (petroleum), solvent-refined heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
Carbon dioxide	STEL	30,000 ppm 54,000 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
	TWA	5,000 ppm 9,000 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
Carbon dioxide	TWA	5,000 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	15,000 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Carbon dioxide	TWA	5,000 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
	STEL	30,000 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Carbon dioxide	STEL	30,000 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	TWA	5,000 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon dioxide	8 HR ACL	5,000 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)

	15 MIN ACL	30,000 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Carbon dioxide	TWA	5,000 ppm 9,000 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	STEL	30,000 ppm 54,000 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Carbon dioxide	TWA	5,000 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	30,000 ppm	US. ACGIH Threshold Limit Values (2008)
Carbonic acid calcium salt (1:1)	TWA	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
Carbonic acid calcium salt (1:1) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Carbonic acid calcium salt (1:1) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Carbonic acid calcium salt (1:1) - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Carbonic acid calcium salt (1:1)	8 HR ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	20 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Carbonic acid calcium salt (1:1) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: No data available.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state:	Gas
Form:	Compressed gas
Color:	No data available.
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	Estimated > 150 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product:

Specified substance(s):

Trichloroethylene	LD Lo (Rat): 5,620 mg/kg LD 50: > 5,000 mg/kg
Tetradecane, chloro derivs.	LD 50: > 2,000 mg/kg
Distillates (petroleum), hydrotreated middle	LD 50 (Rat): > 5,000 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic	LD 50 (Rat): > 5,000 mg/kg
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	LD 50 (Rat): > 5,000 mg/kg
Sulfonic acids, petroleum, calcium salts	LD 50 (Rat): > 16,000 mg/kg
Proprietary	LD 50: > 2,000 mg/kg
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	LD 50 (Rat): > 5,000 mg/kg
Proprietary	LD 50: > 5,000 mg/kg
Carbonic acid calcium salt (1:1)	NOAEL (Mouse): 1,300 mg/kg LD 50 (Rat): > 2,000 mg/kg LD 0 (Rat): > 2,000 mg/kg

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

Specified substance(s):

Trichloroethylene	LD 50: > 2,000 mg/kg
Tetradecane, chloro derivs.	LD 50: > 2,000 mg/kg

Distillates (petroleum), hydrotreated middle	LD 50 (Rabbit): > 2,000 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic	LD 50 (Rabbit): > 5,000 mg/kg
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	LD 50 (Rabbit): > 2,000 mg/kg
Sulfonic acids, petroleum, calcium salts	LD 50 (Rabbit): > 4,000 mg/kg
Proprietary	LC 50: > 2,000 mg/kg
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	LD 50 (Rabbit): > 5,000 mg/kg
Proprietary	LD 50: > 5,000 mg/kg
Carbonic acid calcium salt (1:1)	LD 50 (Rat): > 2,000 mg/kg

Inhalation

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

Specified substance(s):

Trichloroethylene	LC 50: > 20 mg/l LC 50: > 20 mg/l
Tetradecane, chloro derivs.	LC 50: > 20 mg/l LC 50: > 5 mg/l
Distillates (petroleum), hydrotreated middle	LC 50 (Rat): 4.6 mg/l
Distillates (petroleum), solvent-refined heavy paraffinic	LC 50 (Rat): > 5.53 mg/l
Carbon dioxide	LC 50: > 20 mg/l LC 50: > 5 mg/l
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	LC 50 (Rat): > 1.9 mg/l
Sulfonic acids, petroleum, calcium salts	LC 50 (Rat): > 1.9 mg/l
Proprietary	LC 50: > 5 mg/l LC 50: > 20 mg/l
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	LC 50 (Rat): > 1.9 mg/l
Proprietary	LC 50: > 21 mg/l LC 50: > 5 mg/l
Carbonic acid calcium salt (1:1)	LC 50 (Rat): > 3 mg/l

Repeated dose toxicity

Product:	No data available.
Specified substance(s):	
Trichloroethylene	NOAEL (Rat(Male), Inhalation): 100 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Male), Oral, 52 Weeks): 50 mg/kg Oral Experimental result, Key study
Distillates (petroleum), hydrotreated middle	LOAEL (Rat(Female, Male), Inhalation): 24 mg/m3 Inhalation Experimental result, Key study NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	NOAEL (Rat(Female, Male), Inhalation): 220 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	NOAEL (Rat(Female, Male), Oral, 29 - 43 d): 500 mg/kg Oral Read-across based on grouping of substances (category approach), Key study NOAEL (Rat, Dermal, 28 d): > 1,000 mg/kg Dermal Read-across from supporting substance (structural analogue or surrogate), Key study
Sulfonic acids, petroleum, calcium salts	NOAEL (Rat, Oral, 28 d): 1,000 mg/kg Oral Experimental result, Supporting study NOAEL (Rat, Dermal, 28 d): > 1,000 mg/kg Dermal Experimental result, Key study
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	NOAEL (Rat, Oral, 28 d): 1,000 mg/kg Oral Read-across based on grouping of substances (category approach), Supporting study NOAEL (Rat, Dermal, 28 d): > 1,000 mg/kg Dermal Read-across from supporting substance (structural analogue or surrogate), Key study
Carbonic acid calcium salt (1:1)	NOAEL (Mouse(Female, Male), Oral, 28 d): 1,300 mg/kg Oral Experimental result, Supporting study NOAEL (Rat(Female, Male), Oral, 14 d): 1,000 mg/kg Oral Experimental result, Supporting study NOAEL (Rat(Female, Male), Oral, <= 48 d): 1,000 mg/kg Oral Experimental result, Key study

Skin Corrosion/Irritation

Product:	No data available.
Specified substance(s):	
Distillates (petroleum), hydrotreated middle	in vivo (Rabbit): Not irritant Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	in vivo (Rabbit): Not irritant Experimental result, Key study
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	in vivo (Rabbit): Not irritant Read-across based on grouping of substances (category approach), Supporting study
Sulfonic acids, petroleum, calcium salts	in vivo (Rabbit): Not irritant Experimental result, Key study
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	in vivo (Rabbit): Not irritant Read-across based on grouping of substances (category approach), Supporting study
Carbonic acid calcium salt (1:1)	in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated middle	Rabbit, 24 hrs: Not irritating
Distillates (petroleum), solvent-refined heavy paraffinic	Rabbit, 48 hrs: Not irritating
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Rabbit, 24 - 72 hrs: Not irritating
Sulfonic acids, petroleum, calcium salts	Rabbit, 24 - 72 hrs: Not irritating
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	Rabbit, 24 - 72 hrs: Not irritating
Carbonic acid calcium salt (1:1)	Rabbit, 24 - 72 hrs: Not irritating Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated middle	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), solvent-refined heavy paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Skin sensitization:, in vivo (Guinea pig): Sensitising
Sulfonic acids, petroleum, calcium salts	Skin sensitization:, in vivo (Guinea Pig): Sensitising
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	Skin sensitization:, in vivo (Guinea pig): Sensitising

Carcinogenicity

Product: No data available.

Specified substance(s):

Trichloroethylene	Potential cancer hazard.
Distillates (petroleum), hydrotreated middle	Potential cancer hazard.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Trichloroethylene	Overall evaluation: 1. Carcinogenic to humans.
Distillates (petroleum), solvent-refined heavy paraffinic	Overall evaluation: 3. Not classifiable as to carcinogenicity to humans. Overall evaluation: 1. Carcinogenic to humans.

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

Ethene, 1,1,2-trichloro-	Year first listed as Known carcinogen: 2000. Hazard Designation: Known To Be Human Carcinogen.
Distillates (petroleum), solvent-refined heavy paraffinic	Year first listed as Known carcinogen: 1980. Hazard Designation: Known To Be Human Carcinogen.

ACGIH Carcinogen List:

Ethene, 1,1,2-trichloro-	Group A2: Suspected human carcinogen.
Distillates (petroleum), solvent-refined heavy paraffinic	Group A2: Suspected human carcinogen.

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):

Trichloroethylene	LC 50 (Pimephales promelas, 96 h): 44.1 mg/l Experimental result, Supporting study
Tetradecane, chloro derivs.	LC 50 (96 h): > 0.1 mg/l
Distillates (petroleum), solvent-refined heavy paraffinic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	LL 0 (Pimephales promelas, 96 h): 1,000 mg/l Read-across based on grouping of substances (category approach), Supporting study
Sulfonic acids, petroleum, calcium salts	LL 0 (Cyprinodon variegatus, 96 h): 10,000 mg/l Experimental result, Key study
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	LL 0 (Pimephales promelas, 96 h): 1,000 mg/l Read-across based on grouping of substances (category approach), Supporting study
Carbonic acid calcium salt (1:1)	LC 50 (Western mosquitofish (Gambusia affinis), 24 h): > 56,000 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 48 h): > 56,000 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 96 h): > 56,000 mg/l Mortality

Aquatic Invertebrates

Product:	No data available.
Specified substance(s):	
Trichloroethylene	IC 50 (Daphnia magna, 48 h): 20.8 mg/l Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	EC 50 (Daphnia magna, 48 h): 1,000 mg/l Read-across based on grouping of substances (category approach), Supporting study
Sulfonic acids, petroleum, calcium salts	EC 50 (Daphnia magna, 48 h): > 1,000 mg/l Experimental result, Key study
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	EC 50 (Daphnia magna, 48 h): 1,000 mg/l Read-across based on grouping of substances (category approach), Supporting study

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Specified substance(s):	
Trichloroethylene	NOAEL (Jordanella floridae): 5.76 mg/l Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study

Aquatic Invertebrates

Product:	No data available.
Specified substance(s):	
Distillates (petroleum), solvent-refined heavy paraffinic	NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product:	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Specified substance(s):	
Trichloroethylene	19 % (28 d) Detected in water. Experimental result, Key study
Tetradecane, chloro derivs.	There are no data on the degradability of this product.
Distillates (petroleum), hydrotreated middle	41.96 % Detected in water. Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	2 - 4 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	9.1 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study 8.6 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study
Sulfonic acids, petroleum, calcium salts	8 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Key study 8.6 % (28 d) Detected in water. Experimental result, Supporting study
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	8 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Key study 8.6 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Trichloroethylene	Lepomis macrochirus, Bioconcentration Factor (BCF): 17 Aquatic sediment Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Trichloroethylene	No data available.
Tetradecane, chloro derivs.	No data available.
Distillates (petroleum), hydrotreated middle	No data available.
Distillates (petroleum), solvent-refined heavy paraffinic	No data available.
Carbon dioxide	No data available.
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	No data available.
Sulfonic acids, petroleum, calcium salts	No data available.
Proprietary	No data available.
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	No data available.
Proprietary	No data available.
Carbonic acid calcium salt (1:1)	No data available.

Other adverse effects: Toxic to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.

14. Transport information

TDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, non-flammable, 6.1
Transport Hazard Class(es)	
Class:	2.2
Label(s):	–
EmS No.:	

Packing Group:	–
Environmental Hazards:	Yes
Marine Pollutant	No
Special precautions for user:	Not regulated.

IMDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, non-flammable, 6.1
Transport Hazard Class(es)	
Class:	2
Label(s):	–
EmS No.:	F-D, S-U
Packing Group:	–
Environmental Hazards:	Yes
Marine Pollutant	No
Special precautions for user:	Not regulated.

IATA

UN Number:	UN 1950
Proper Shipping Name:	Aerosols, non-flammable, 6.1
Transport Hazard Class(es):	
Class:	2.2
Label(s):	–
Packing Group:	–
Environmental Hazards:	Yes
Marine Pollutant	No
Special precautions for user:	Not regulated.
Cargo aircraft only:	Allowed.

15. Regulatory information

Canada Federal Regulations
List of Toxic Substances (CEPA, Schedule 1)

Chemical Identity
Trichloroethylene
Carbon dioxide

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

National Pollutant Release Inventory (NPRI)
Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- 1,6-Octadiene, 7-methyl-3-methylene-

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI	Trichloroethylene

Greenhouse Gases

Chemical Identity
Carbon dioxide

Controlled Drugs and Substances Act

CA CDSI	Not Regulated
CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated

Precursor Control Regulations

Not Regulated

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Inventory Status:

Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EINECS, ELINCS or NLP:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Mexico INSQ:	Not in compliance with the inventory.
Ontario Inventory:	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory:	Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

Issue Date:	10/01/2019
Revision Date:	01/30/2020.
Version #:	1.1
Further Information:	No data available.
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.