DuraCoil Coil & Surface Protectant

Safety Data Sheet

According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022) & According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) (amended 2024)
Issue date: 09/09/2025 Version: 1.0

SECTION 1 Identification

1.1. GHS Product identifier

Product form	: Mixture
Product name	: DuraCoil Coil & Surface Protectant
Product code	: 4083-91
Vaporizer	: Aerosol

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Coil and Surface Protectant

1.4. Supplier's details

Manufacturer
Nu-Calgon
2611 Schuetz Road
St. Louis, MO
63043
US
T 314-469-7000 / 800-554-5499
www.nucalgon.com

1.5. Emergency phone number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA/US)

Aerosol, Category 1	Extremely flammable aerosol. Pressurized container; may burst if heated.
Skin corrosion/irritation, Category 2	Causes skin irritation.
Serious eye damage/eye irritation, Category 2A	Causes serious eye irritation.
Germ cell mutagenicity, Category 1B	May cause genetic defects.
Carcinogenicity, Category 1B	May cause cancer.
Reproductive toxicity, Category 2	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – Single exposure, Category 3, Narcosis	May cause drowsiness or dizziness.
Specific target organ toxicity, Repeated exposure, Category 1	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	May be fatal if swallowed and enters airways.

2.2. GHS label elements, including precautionary statements

GHS CA/US labeling

Hazard pictograms (GHS CA/US) :

Signal word (GHS CA/US) : Danger

Hazard statements (GHS CA/US)	:	Extremely flammable aerosol Pressurized container; may burst if heated May be fatal if swallowed and enters airways Causes skin irritation Causes serious eye irritation May cause drowsiness or dizziness May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (GHS CA/US)	:	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. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection. IF exposed or concerned: Get medical advice or attention. IF SWALLOWED: Immediately call a POISON CENTER or a doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or a doctor if you feel unwell. 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 or attention. Specific treatment (see supplemental first aid instruction on this label). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Solvent naphtha, petroleum, light aliphatic	Solvent naphtha (petroleum), light aliph., Low boiling point naphtha, [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C5 through C10 and boiling in the range of approximately 35°C to 160°C (95°F to 320°F).] Naphtha, petroleum, light aliphatic / Solvent naphtha light aliphatic / Naphtha, light aliphatic solvent / Solvent naphtha(petroleum), light aliphatic / Light aliphatic solvent naphtha / Solvent naphtha (petroleum), light aliphatic; Low boiling point naphtha [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C5 through C10 and boiling in the range of approximately 35°C to 160°C (95°F to 320°F).]	CAS-No.: 64742-89-8	10 – 30
Propane	propane Normal propane / PROPANE / n-Propane / R290 / R-290	CAS-No.: 74-98-6	10 – 30
n-Butane	butane Butane / BUTANE	CAS-No.: 106-97-8	10 – 30

Name	Chemical name / Synonyms	Product identifier	%
Petroleum distillates, hydrotreated light	Hydrotreated light distillate / Kerosene, hydrotreated / Petroleum distillates, hydrotreated light (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9-16 and boiling in the range of approximately 150-290°C.) / Odorless light petroleum hydrocarbons / c13-14 isoparaffin / Destillate (Erdöl), mit Wasserstoff behandelt leichte (C9-14 Aliphaten) / Light Aliphatic Hydrocarbon / Distillates, petroleum, hydrotreated light	CAS-No.: 64742-47-8	10 – 30
Acetone	acetone, propan-2-one, propanone Dimethyl ketone / 2-Propanone / ACETONE / Propan-2-one / Propanone	CAS-No.: 67-64-1	7 - 13
Talc (Mg3H2(SiO3)4)	Talc / Magnesium silicate / Talc (containing no asbestos fibers) / Talc (containing no asbestos) / Talc not containing asbestiform fibres / Talc, not containing asbestos / Talc, containing no asbestos fibres / Talc (nonasbestos form) / Talc (non-asbestos form) / Talc, non-fibrous type / Talc, non fibrous / Talc (containing no asbestos fibres) / Non-asbestiform talc / Talc (not containing asbestos) / C.I. 77718 / TALC / Trimagnesium tetrasilicon undecaoxide hydrate / Talc, non-asbestiform / Talc, non-fibrous / Pigment White 26 / Magnesium silicate, hydrous / Talc, not containing mineral fibers (including asbestos) / Asbestiform talc / Talc powder	CAS-No.: 14807-96-6	5 - 10
Wollastonite (Ca(SiO3))	Wollastonite / WOLLASTONITE / Wollastonite (Ca(SiO3)	CAS-No.: 13983-17-0	5 - 10

Name	Chemical name / Synonyms	Product identifier	%
Distillates, petroleum, light distillate hydrotreating process, low-boiling	Distillates (petroleum), light distillate hydrotreating process, low-boiling, Low boiling point hydrogen treated naphtha, [A complex combination of hydrocarbons obtained by the distillation of products from the light distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C9 and boiling in the range of approximately 3°C to 194°C (37°F to 382°F).] Distillates (petroleum), light distillate hydrotreating process, low-boiling / Distillates (petroleum), light distillate hydrotreating process, low-boiling - low boiling point hydrogen treated naphtha / Distillates (petroleum), light distillate hydrotreating process, low-boiling; Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by the distillation of products from the light distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C9 and boiling in the range of approximately 3°C to 194°C (37°F to 382°F).]	CAS-No.: 68410-97-9	5 - 10
Naphtha, petroleum, hydrotreated light	Naphtha (petroleum), hydrotreated light	CAS-No.: 64742-49-0	5 - 10
Titanium dioxide	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] C.I. 77891 / C.I. Pigment White 6 / Titanium oxide (TiO2) / CI 77891 / Titanium(IV) oxide / C.I. Pigment White 7 / Pigment White 6 / Titanium oxide	CAS-No.: 13463-67-7	1 - 5

Name	Chemical name / Synonyms	Product identifier	%
Silica, amorphous	Amorphous silica / Silica / Silica, amorphous, fumed / Silica, colloidal / Silicon dioxide / Silicon dioxide, amorphous / SILICA / Silicon(IV) oxide / Un-crystalline silica / Pigment White 27 / Silicon dioxide (amorphous) / Silicon dioxide amorphous / Fumed silica / SOLUM DIATOMEAE / Hydrated silica	CAS-No.: 7631-86-9	1 - 5
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	Di-tert-butyl-p-cresol / 2,6-Di-tert-butyl-4-cresol / 3,5-Di-tert-butyl-4-hydroxytoluene / Butylhydroxytoluene / 2,6-Di(dimethylethyl)-4-methylphenol / 2,6-Di-tertiary-butyl-para-cresol / 2,6-Di-tert-butyl-4-hydroxytoluene / Phenol, 2,6-di-tert-butyl-4-methyl- / Ionol / 2,6-Di-tert-butyl-4-methylphenol / DBPC / Butylated hydroxytoluene / 2,6-Bis(1,1-dimethylethyl)-4-methylphenol / BHT / 2,6-Di-tert-butyl-p-cresol	CAS-No.: 128-37-0	1 - 5
Octane	octane, n-octane n-Octane / OCTANE / n-octane	CAS-No.: 111-65-9	0.1 – 1
n-Heptane	heptane, n-heptane Heptane (n-) / Heptane / Normal heptane / Heptane, n- / HEPTANE	CAS-No.: 142-82-5	0.1 – 1
Quartz	Quartz (SiO2) / Silica, crystalline, quartz / Crystalline silica, quartz / .alpha.-Quartz / Silica, crystalline, .alpha.-quartz / QUARTZ / Crystalline silica in the form of quartz / Quartz, silica / Quartz (respirable fraction) / Silica dust / Silica, crystalline-.alpha.quartz / Silica, .alpha.-quartz / Silicon dioxide / Silica, quartz / Silica, crystalline / Quartz (crystalline silica) / Silica dust, crystalline / QUARTZ POWDER / Silica, crystalline (quartz)	CAS-No.: 14808-60-7	0.1 – 1

Name	Chemical name / Synonyms	Product identifier	%
2-Butoxyethanol	2-butoxyethanol; ethylene glycol monobutyl ether 2-Butoxy-1-ethanol / Butoxyethanol / Ethanol, 2-butoxy- / Ethylene glycol monobutyl ether / Ethylene glycol n-butyl ether / Hydroxyethyl butyl ether / Ethylene glycol butyl ether / 2-Butoxyethan-1-ol / Ethylene glycol mono-n-butyl ether / 2-n-Butoxyethanol / Butyl glycol / BUTOXYETHANOL / EGBE / EGMBE / Butoxyethanol, 2- / Butyl Cellosolve / Monobutyl ether of ethyleneglycol	CAS-No.: 111-76-2	0.1 – 1
2-Propanol, 1-methoxy-	1-methoxy-2-propanol, monopropylene glycol methyl ether 1-Methoxy-2-propanol / Methoxyisopropanol / Propylene glycol methyl ether / Propan-2-ol, 1-methoxy- / 1-Methoxypropan-2-ol / 1-Methoxy-2-hydroxypropane / 2-Methoxy-1-methylethanol / Propylene glycol monomethyl ether / 2-Propylene glycol 1-monomethyl ether / Methyl proxitol / Propanol, methoxy-	CAS-No.: 107-98-2	0.1 – 1

Comments : CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the amended HPR as of December 2022.
US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice or attention.

First-aid measures after eye contact : 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 and attention.

First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. If vomiting occurs have person lean forward. Never give anything by mouth to an unconscious person.

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Medical personnel should be made aware of substance(s) involved and take measures for self protection. Show this safety data sheet to the doctor in attendance. Avoid contact with skin and eyes. Keep out of the reach of children.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Prolonged inhalation may be harmful. May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms/effects after eye contact	:	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Symptoms/effects after ingestion	:	May be fatal if swallowed and enters airways. Aspiration of the product into the lungs may cause very serious pneumonia. May cause stomach distress, nausea or vomiting.
Chronic symptoms	:	May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	:	Symptoms may be delayed. Treat symptomatically.

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	:	Dry chemical powder. Alcohol-resistant foam. Carbon dioxide.
Unsuitable extinguishing media	:	Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard	:	Extremely flammable aerosol. During fire, gases hazardous to health may be formed. In case of fire or explosion do not breathe fumes.
Explosion hazard	:	Pressurized container: may burst if heated. No direct explosion hazard.
Hazardous decomposition products in case of fire	:	May include and are not limited to: oxides of carbon.

5.3. Special protective actions for fire-fighters

Firefighting instructions	:	In case of fire: Stop leak if safe to do so. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers.
Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	In the event of a significant spillage : Notify authorities if product enters sewers or public waters. Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Environmental precautions	:	Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

For containment	:	Stop leaks if it can be done without personal risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	:	Pick up spilled material and collect it in a suitable container for disposal. . Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Clean contaminated surfaces with an excess of water.
Other information	:	This material and its container must be disposed of in a safe way, and as per local legislation.

For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

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. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe spray. Do not taste or swallow. Ensure good ventilation of the work station. Handle and open container with care.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of reach of children. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Store this product upright in a cool, dry area, away from direct sunlight and heat. Store away from incompatible materials (see Section 10 of the SDS). Store locked up.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	100 ppm
Notations and remarks	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	100 ppm
Notations and remarks	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	100 ppm
Notations and remarks	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	100 ppm
Notations and remarks	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	100 ppm

Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
Remark (ACGIH)	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025

Talc (Mg3H2(SiO3)4) (14807-96-6)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (respirable particulate)
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	2 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable dust)
Notations and remarks	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-particulate matter, respirable particulate matter)
	0.1 fibers/cm³ (Containing asbestos fibers. F - Respirable fibers)
Notations and remarks	Containing no asbestos fibers = TLV® Basis: Pulm fibrosis & func. Notations: A4 (Not classifiable as a Human Carcinogen) Containing asbestos fibers = TLV® Basis: Pneumoconiosis; Lung cancer; Mesothelioma. Notations: A1 (Confirmed Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-particulate matter, respirable particulate matter)
	0.1 fibers/cm³ (Containing asbestos fibers. F - Respirable fibers)
Notations and remarks	Containing no asbestos fibers = TLV® Basis: Pulm fibrosis & func. Notations: A4 (Not classifiable as a Human Carcinogen) Containing asbestos fibers = TLV® Basis: Pneumoconiosis; Lung cancer; Mesothelioma. Notations: A1 (Confirmed Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-particulate matter, respirable particulate matter)
	0.1 fibers/cm³ (Containing asbestos fibers. F - Respirable fibers)

Talc (Mg3H2(SiO3)4) (14807-96-6)	
Notations and remarks	Containing no asbestos fibers = TLV® Basis: Pulm fibrosis & func. Notations: A4 (Not classifiable as a Human Carcinogen) Containing asbestos fibers = TLV® Basis: Pneumoconiosis; Lung cancer; Mesothelioma. Notations: A1 (Confirmed Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (respirable fraction)
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (respirable fraction)
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	2 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable fraction)
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-particulate matter, respirable particulate matter)
	0.1 fibers/cm³ (Containing asbestos fibers. F - Respirable fibers)
Notations and remarks	Containing no asbestos fibers = TLV® Basis: Pulm fibrosis & func. Notations: A4 (Not classifiable as a Human Carcinogen) Containing asbestos fibers = TLV® Basis: Pneumoconiosis; Lung cancer; Mesothelioma. Notations: A1 (Confirmed Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (respirable fraction)
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	20 mppcf
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
	0.1 fibers/cm³ (Containing asbestos fibers. F - Respirable fibers)
Remark (ACGIH)	Containing no asbestos fibers = TLV® Basis: Pulm fibrosis & func. Notations: A4 (Not classifiable as a Human Carcinogen) Containing asbestos fibers = TLV® Basis: Pneumoconiosis; Lung cancer; Mesothelioma. Notations: A1 (Confirmed Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen containing no asbestos fibers
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	20 mppcf (if 1% Quartz or more, use Quartz limit)

Talc (Mg3H2(SiO3)4) (14807-96-6)	
	20 mppcf
Remark (OSHA)	Table Z-3. CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

Wollastonite (Ca(SiO3)) (13983-17-0)	
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	10 mg/m³ Td 5 mg/m³ Rd
Notations and remarks	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	1 mg/m³ Inhalable. (E) - the value is for particulate matter containing no asbestos and less than 1% crystalline silica
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	1 mg/m³ (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica)
Notations and remarks	TLV® Basis: Pneumonconiosis; pulm func. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-inhalable fraction)
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	1 mg/m³ (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica)
Notations and remarks	TLV® Basis: Pneumonconiosis; pulm func. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	1 mg/m³ (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica)
Notations and remarks	TLV® Basis: Pneumonconiosis; pulm func. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-inhalable particulate matter)
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	1 mg/m³ (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica)

Wollastonite (Ca(SiO3)) (13983-17-0)	
Notations and remarks	TLV® Basis: Pneumonconiosis; pulm func. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m³ (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica)
Remark (ACGIH)	TLV® Basis: Pneumonconiosis; pulm func. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2025

Titanium dioxide (13463-67-7)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	10 mg/m³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	10 mg/m³ (containing no Asbestos and <1% Crystalline silica-total dust)
Notations and remarks	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	10 mg/m³ (total dust) 3 mg/m³ (respirable fraction)
Notations and remarks	IARC group 2B carcinogen
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	0.2 mg/m³ (nanoscale-nanoscale respirable particulate matter) 2.5 mg/m³ (finescale-finescale respirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	10 mg/m³
Notations and remarks	LRT irr
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	0.2 mg/m³ (nanoscale-nanoscale respirable particulate matter) 2.5 mg/m³ (finescale-finescale respirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)

Titanium dioxide (13463-67-7)	
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	0.2 mg/m³ (nanoscale-nanoscale respirable particulate matter) 2.5 mg/m³ (finescale-finescale respirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	10 mg/m³
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	0.2 mg/m³ (nanoscale-nanoscale respirable particulate matter) 2.5 mg/m³ (finescale-finescale respirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	30 mppcf 10 mg/m³
OEL STEL	20 mg/m³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.2 mg/m³ (nanoscale respirable particulate matter) 2.5 mg/m³ (finescale respirable particulate matter)
Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2025

Titanium dioxide (13463-67-7)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	15 mg/m³ (total dust)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Silica, amorphous (7631-86-9)	
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	300 particle/mL (as measured by Konimeter instrumentation (Silica) 20 mppcf (as measured by Impinger instrumentation (Silica) 2 mg/m³ (respirable mass (Silica)

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	2 mg/m³ (inhalable fraction and vapour)
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (inhalable; inhalable aerosol and vapour)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (inhalable fraction and vapor)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (inhalable fraction and vapor)
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (inhalable fraction and vapor)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (inhalable fraction and vapor)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (inhalable fraction and vapour)
OEL STEL	4 mg/m³ (inhalable fraction and vapour)
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	2 mg/m³ (inhalable fraction and vapor)
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (inhalable fraction and vapor)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	2 mg/m³ (inhalable fraction and vapour)
OEL STEL	4 mg/m³ (inhalable fraction and vapour)
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m³ (inhalable fraction and vapor)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2025

Quartz (14808-60-7)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	0.025 mg/m³ (respirable particulate)
Notations and remarks	Carcinogenicity A2
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	0.1 mg/m³ (respirable dust)
Notations and remarks	C2, EM
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	0.025 mg/m³ (respirable)
Notations and remarks	ACGIH Carcinogenicity category A2; IARC group 1 carcinogen
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	0.025 mg/m³ (respirable fraction)
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	0.05 mg/m³ (Trydimite removed-respirable fraction (Silica - crystalline)
Notations and remarks	Designated substance
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	0.05 mg/m³ (Trydimite removed-respirable fraction (Silica - crystalline)

Quartz (14808-60-7)	
Notations and remarks	Designated substance
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	0.1 mg/m³ (designated substances regulation-respirable fraction (Silica, crystalline)
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	0.05 mg/m³ (Trydimite removed-respirable fraction (Silica - crystalline (Trydimite removed))
Notations and remarks	Designated Chemical Substance
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	300 particle/mL (Silica - Quartz, crystalline)
USA - ACGIH - Occupational Exposure Limits	
ACGIH chemical category	Suspected Human Carcinogen
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	50 µg/m³ (Respirable crystalline silica)
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formulas: (250 / (%SiO2+5)) for mppcf and (10 mg/m3 / (%SiO2+2)) for mg/m3. CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

Acetone (67-64-1)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	1200 mg/m³
	500 ppm
OEL STEL	1800 mg/m³
	750 ppm
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VECD (OEL STEV)	2380 mg/m³
	1000 ppm
VEMP (OEL TWAEV)	1190 mg/m³
	500 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	250 ppm
OEL STEL	500 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	250 ppm

Acetone (67-64-1)	
OEL STEL	500 ppm
Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	250 ppm
OEL STEL	500 ppm
Notations and remarks	eye irr; CNS impair; BEI
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	250 ppm
OEL STEL	500 ppm
Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	250 ppm
OEL STEL	500 ppm
Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	500 ppm
OEL STEL	750 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	500 ppm
OEL STEL	750 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	250 ppm
	500 ppm
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	250 ppm
OEL STEL	500 ppm
Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025

Acetone (67-64-1)	
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	500 ppm
OEL STEL	750 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	2400 mg/m³
	1000 ppm
OEL STEL	3000 mg/m³
	1250 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	250 ppm
ACGIH OEL STEL	500 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Acetone
BEI	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift (nonspecific)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	2400 mg/m³
	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Naphtha, petroleum, hydrotreated light (64742-49-0)	
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	100 ppm
Notations and remarks	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	100 ppm
Notations and remarks	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	100 ppm

Naphtha, petroleum, hydrotreated light (64742-49-0)	
Notations and remarks	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	100 ppm
Notations and remarks	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	100 ppm
Remark (ACGIH)	TLV® Basis: Peripheral neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025

Octane (111-65-9)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	1400 mg/m³
	300 ppm
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	300 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	300 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	1401 mg/m³
	300 ppm
Notations and remarks	TLV® Basis: URT irr
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	300 ppm
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	1401 mg/m³
	300 ppm
Notations and remarks	TLV® Basis: URT irr
Regulatory reference	ACGIH 2025

Octane (111-65-9)	
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	1401 mg/m³
	300 ppm
Notations and remarks	TLV® Basis: URT irr
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	300 ppm
OEL STEL	375 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	300 ppm
OEL STEL	375 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	300 ppm
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	1401 mg/m³
	300 ppm
Notations and remarks	TLV® Basis: URT irr
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	300 ppm
OEL STEL	375 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	1450 mg/m³
	300 ppm
OEL STEL	1800 mg/m³
	375 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1401 mg/m³
	300 ppm
Remark (ACGIH)	TLV® Basis: URT irr
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	2350 mg/m³

Octane (111-65-9)	
	500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
n-Heptane (142-82-5)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	1640 mg/m³
	400 ppm
OEL STEL	2050 mg/m³
	500 ppm
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VECD (OEL STEV)	500 ppm
VEMP (OEL TWAEV)	400 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	400 ppm
OEL STEL	500 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	200 ppm
OEL STEL	400 ppm
Notations and remarks	TLV® Basis: URT irr; Lung dam; CNS impair; Ototoxicity. Notations: OTO (Ototoxicant)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	400 ppm
OEL STEL	500 ppm (Heptane, all isomers)
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	200 ppm
OEL STEL	400 ppm
Notations and remarks	TLV® Basis: URT irr; Lung dam; CNS impair; Ototoxicity. Notations: OTO (Ototoxicant)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	200 ppm
OEL STEL	400 ppm
Notations and remarks	TLV® Basis: URT irr; Lung dam; CNS impair; Ototoxicity. Notations: OTO (Ototoxicant)
Regulatory reference	ACGIH 2025

n-Heptane (142-82-5)	
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	400 ppm
OEL STEL	500 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	400 ppm
OEL STEL	500 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	400 ppm
	500 ppm
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	200 ppm
OEL STEL	400 ppm
Notations and remarks	TLV® Basis: URT irr; Lung dam; CNS impair; Ototoxicity. Notations: OTO (Ototoxicant)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	400 ppm
OEL STEL	500 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	1600 mg/m³
	400 ppm
OEL STEL	2000 mg/m³
	500 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	200 ppm
ACGIH OEL STEL	400 ppm
Remark (ACGIH)	TLV® Basis: URT irr; Lung dam; CNS impair; Ototoxicity. Notations: OTO (Ototoxicant)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	2000 mg/m³
	500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

2-Butoxyethanol (111-76-2)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	97 mg/m³
	20 ppm
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	20 ppm
Notations and remarks	C3
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	20 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	97 mg/m³
	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	20 ppm
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	97 mg/m³
	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	97 mg/m³
	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	20 ppm
OEL STEL	30 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)

2-Butoxyethanol (111-76-2)	
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	20 ppm
OEL STEL	30 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	20 ppm
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	97 mg/m³
	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	20 ppm
OEL STEL	30 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	240 mg/m³
	50 ppm
OEL STEL	720 mg/m³
	150 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	97 mg/m³
	20 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	240 mg/m³
	50 ppm
Limit value category (OSHA)	prevent or reduce skin absorption
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

2-Propanol, 1-methoxy- (107-98-2)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	369 mg/m³

2-Propanol, 1-methoxy- (107-98-2)	
	100 ppm
OEL STEL	553 mg/m³
	150 ppm
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VECD (OEL STEV)	553 mg/m³
VEMP (OEL TWAEV)	369 mg/m³
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	50 ppm
OEL STEL	100 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	184 mg/m³
	50 ppm
OEL STEL	369 mg/m³
	100 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	50 ppm
OEL STEL	100 ppm
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	184 mg/m³
	50 ppm
OEL STEL	369 mg/m³
	100 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	184 mg/m³
	50 ppm
OEL STEL	369 mg/m³
	100 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025

2-Propanol, 1-methoxy- (107-98-2)	
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	100 ppm
OEL STEL	150 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	100 ppm
OEL STEL	150 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	50 ppm
	100 ppm
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	184 mg/m³
	50 ppm
OEL STEL	369 mg/m³
	100 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	100 ppm
OEL STEL	150 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	360 mg/m³
	100 ppm
OEL STEL	450 mg/m³
	150 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	184 mg/m³
	50 ppm
ACGIH OEL STEL	369 mg/m³
	100 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2025

Propane (74-98-6)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	1000 ppm
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Notations and remarks	Simple asphyxiant. EX
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Notations and remarks	Simple asphyxiant. EX (the substance is a flammable asphyxiant or excursions above the exposure limit could approach 10% of the lower explosive limit)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Notations and remarks	See Appendix F: Minimal Oxygen Content
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

Propane (74-98-6)	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH)	TLV® Basis: Asphyxia
ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	1800 mg/m³
	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

n-Butane (106-97-8)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	1000 ppm
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	1900 mg/m³
	800 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
OEL STEL	1000 ppm (Butane, all isomers)
Notations and remarks	EX (the substance is a flammable asphyxiant or excursions above the exposure limit could approach 10% of the lower explosive limit)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL STEL	2370 mg/m³ (EX - Explosion hazard)
	1000 ppm (explosion hazard (Butane, isomers)
Notations and remarks	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
OEL STEL	1000 ppm
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL STEL	2370 mg/m³ (EX - Explosion hazard)
	1000 ppm (explosion hazard (Butane, isomers)
Notations and remarks	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL STEL	2370 mg/m³ (EX - Explosion hazard)
	1000 ppm (explosion hazard (Butane, isomers)
Notations and remarks	TLV® Basis: CNS impair

n-Butane (106-97-8)	
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	1000 ppm (Butane, all isomers)
OEL STEL	1250 ppm (Butane, all isomers)
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	1000 ppm (Butane, all isomers)
OEL STEL	1250 ppm (Butane, all isomers)
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	1000 ppm (explosion hazard (Butane, all isomers)
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL STEL	2370 mg/m³ (EX - Explosion hazard)
	1000 ppm (explosion hazard (Butane, isomers)
Notations and remarks	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	1000 ppm (Butane, all isomers)
OEL STEL	1250 ppm (Butane, all isomers)
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	1400 mg/m³
	600 ppm
OEL STEL	1600 mg/m³
	750 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL STEL	2370 mg/m³ (EX - Explosion hazard)
	1000 ppm (explosion hazard (Butane, isomers)
Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2025

8.2. Appropriate engineering controls

Appropriate engineering controls : 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.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection:
Wear suitable gloves resistant to chemical penetration

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

Skin and body protection:
Wear suitable protective clothing. As required by employer code.

Respiratory protection:
Use respiratory protection. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Aerosol.
Color	:	Gray
Odor	:	Organic
Odor threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Extremely flammable aerosol
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Density	:	6.48788 lb/gal
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Pressurized container: may burst if heated. Not explosive.
Oxidizing properties	:	Not oxidising.
Explosion limits	:	No data available
Particle characteristics	:	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

VOC content	:	64.6398 % (502.53800 g/L)

SECTION 10 Stability and reactivity

Reactivity	:	Extremely flammable aerosol. Pressurized container: may burst if heated.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	No flames, no sparks. Eliminate all sources of ignition. Do not mix with other chemicals.
Incompatible materials	:	Strong oxidizing agents. Reducing agents. Strong acids.
Hazardous decomposition products	:	May include and are not limited to: oxides of carbon.

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg (Source: IUCLID)
LD50 dermal rabbit	> 2000 mg/kg (Source: NLM_CIP)
LC50 Inhalation - Rat	> 5.2 mg/l/4h

Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	3000 mg/kg (Source: IUCLID)
ATE CA (Dermal)	3000 mg/kg body weight

Talc (Mg3H2(SiO3)4) (14807-96-6)	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 2.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 2.1 mg/l/4h

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 10000 mg/kg (Source: IUCLID)
LC50 Inhalation - Rat	5.09 mg/l/4h
ATE CA (vapors)	5.09 mg/l/4h
ATE CA (dust,mist)	5.09 mg/l/4h

Silica, amorphous (7631-86-9)	
LD50 oral rat	7900 mg/kg (Source: ATSDR)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 5000 mg/kg (Source: ECETOC)
LC50 Inhalation - Rat	> 58.8 mg/l/4h
ATE CA (oral)	7900 mg/kg body weight

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
LD50 oral rat	> 2930 mg/kg (Source: EPA_HPV)
LD50 dermal rat	> 2000 mg/kg (Source: JAPAN_GHS)

Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 15700 mg/kg (Source: OECD_SIDS)
LC50 Inhalation - Rat	50100 mg/m³ (Exposure time: 8 h Source: OECD_SIDS)
LC50 Inhalation - Rat (Vapors)	76 mg/l Source: ECHA
ATE CA (oral)	5800 mg/kg body weight
ATE CA (vapors)	50.1 mg/l/4h
ATE CA (dust,mist)	50.1 mg/l/4h

Distillates, petroleum, light distillate hydrotreating process, low-boiling (68410-97-9)	
LD50 oral rat	5170 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 3000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat [ppm]	> 12408 ppm/4h
ATE CA (oral)	5170 mg/kg body weight

Naphtha, petroleum, hydrotreated light (64742-49-0)	
LD50 oral rat	> 5000 mg/kg (Source: IUCLID)
LD50 dermal rat	2800 – 3100 mg/kg body weight Animal: rat
LD50 dermal rabbit	> 3160 mg/kg (Source: IUCLID)
LC50 Inhalation - Rat	> 23.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat [ppm]	73680 ppm/4h
ATE CA (Dermal)	2950 mg/kg body weight
ATE CA (Gases)	73680 ppmV/4h

Octane (111-65-9)	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 24.88 mg/l/4h

n-Heptane (142-82-5)	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal rabbit	3000 mg/kg (Source: IUCLID)
LC50 Inhalation - Rat	> 73.5 mg/l/4h
ATE CA (Dermal)	3000 mg/kg body weight

2-Butoxyethanol (111-76-2)	
LD50 oral rat	470 mg/kg (Source: NLM_CIP)
LD50 oral	1414 mg/kg body weight Animal: guinea pig, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1020 - 1961
LD50 dermal rabbit	435 mg/kg (Source: OECD_SIDS)
LC50 Inhalation - Rat [ppm]	486 ppm/4h
ATE CA (oral)	470 mg/kg body weight
ATE CA (Dermal)	435 mg/kg body weight
ATE CA (Gases)	486 ppmV/4h
ATE CA (vapors)	3 mg/l/4h
ATE CA (dust,mist)	0.5 mg/l/4h

2-Propanol, 1-methoxy- (107-98-2)	
LD50 oral rat	5000 mg/kg (Source: JAPAN_GHS)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	13 g/kg (Source: NLM_CIP)
LC50 Inhalation - Rat [ppm]	> 7559 ppm (Exposure time: 6 h Source: OECD_SIDS)
ATE CA (oral)	5000 mg/kg body weight
ATE CA (Dermal)	13000 mg/kg body weight

Propane (74-98-6)	
LC50 Inhalation - Rat [ppm]	> 800000 ppm (Exposure time: 15 min Source: ECHA_API)

n-Butane (106-97-8)	
LC50 Inhalation - Rat	658 g/m³ (Exposure time: 4 h Source: NLM_CIP)
ATE CA (vapors)	658 mg/l/4h
ATE CA (dust,mist)	658 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Talc (Mg3H2(SiO3)4) (14807-96-6)	
IARC group	3 - Not classifiable
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity

Wollastonite (Ca(SiO3)) (13983-17-0)	
IARC group	3 - Not classifiable

Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

Silica, amorphous (7631-86-9)	
NOAEL (chronic,oral,animal/male,2 years)	1800 – 3000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (chronic,oral,animal/female,2 years)	1800 – 3200 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
IARC group	3 - Not classifiable

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
IARC group	3 - Not classifiable

Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	Known Human Carcinogens

2-Butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Talc (Mg3H2(SiO3)4) (14807-96-6)	
NOAEL (oral,rat,90 days)	100 mg/kg body weight Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)

Silica, amorphous (7631-86-9)	
NOAEL (dermal,rat/rabbit,90 days)	≥ 10000 mg/kg body weight Animal: rabbit

Naphtha, petroleum, hydrotreated light (64742-49-0)	
LOAEC (inhalation,rat,vapor,90 days)	16.6 mg/l air Animal: rat, Animal sex: male
NOAEC (inhalation,rat,vapor,90 days)	3.3 mg/l air Animal: rat, Animal sex: male

Octane (111-65-9)	
NOAEC (inhalation,rat,vapor,90 days)	24.3 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

n-Heptane (142-82-5)	
LOAEC (inhalation,rat,vapor,90 days)	16.6 mg/l air Animal: rat, Animal sex: male
NOAEC (inhalation,rat,vapor,90 days)	3.3 mg/l air Animal: rat, Animal sex: male

2-Butoxyethanol (111-76-2)	
NOAEL (dermal,rat/rabbit,90 days)	> 150 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

2-Propanol, 1-methoxy- (107-98-2)	
LOAEL (oral,rat,90 days)	2757 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (oral,rat,90 days)	919 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal,rat/rabbit,90 days)	> 1000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Aspiration hazard : May be fatal if swallowed and enters airways.

Likely routes of exposure	:	Skin and eye contact. Ingestion. Inhalation.
Symptoms/effects after inhalation	:	Prolonged inhalation may be harmful. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	:	Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	:	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Symptoms/effects after ingestion	:	May be fatal if swallowed and enters airways. Aspiration of the product into the lungs may cause very serious pneumonia. May cause stomach distress, nausea or vomiting.
Chronic symptoms	:	May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	:	See below for route-specific details.
Hazardous to the aquatic environment, short–term (acute)	:	Not classified.
Hazardous to the aquatic environment, long–term (chronic)	:	Not classified.

Petroleum distillates, hydrotreated light (64742-47-8)	
LC50 - Fish [1]	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: IUCLID)
LC50 - Fish [2]	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)

Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
EC50 72h - Algae [1]	4700 mg/l (Species: Pseudokirchneriella subcapitata)

Talc (Mg3H2(SiO3)4) (14807-96-6)	
LC50 - Fish [1]	> 100 g/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 - Fish [2]	110000 mg/l Test organisms (species): other:
EC50 96h - Algae [1]	7202.7 mg/l Test organisms (species): other:
NOEC (chronic)	1459.798 mg/l Test organisms (species): other: Duration: '30 d'

Titanium dioxide (13463-67-7)	
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Silica, amorphous (7631-86-9)	
LC50 - Fish [1]	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static] Source: IUCLID)
EC50 - Crustacea [1]	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
EC50 72h - Algae [1]	440 mg/l (Species: Pseudokirchneriella subcapitata)
LOEC (chronic)	149.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
EC50 72h - Algae [1]	6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	> 0.42 mg/l (Species: Desmodesmus subspicatus)

Acetone (67-64-1)	
LC50 - Fish [1]	4.74 – 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
LC50 - Fish [2]	6210 – 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	10294 – 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	12600 – 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Naphtha, petroleum, hydrotreated light (64742-49-0)	
LC50 - Fish [1]	8.41 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static, closed] Source: ECHA)
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Octane (111-65-9)	
EC50 - Crustacea [1]	0.38 mg/l (Exposure time: 48 h - Species: water flea)
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

n-Heptane (142-82-5)	
LC50 - Fish [1]	375 mg/l (Exposure time: 96 h - Species: Cichlid fish)
EC50 - Crustacea [1]	1.5 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

2-Butoxyethanol (111-76-2)	
LC50 - Fish [1]	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
LC50 - Fish [2]	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus Source: IUCLID)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC chronic fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

2-Propanol, 1-methoxy- (107-98-2)	
LC50 - Fish [1]	20.8 g/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	23300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	2954 mg/l Test organisms (species): other aquatic crustacea:

12.2. Persistence and degradability

DuraCoil Coil & Surface Protectant	
Persistence and degradability	Rapidly degradable

Petroleum distillates, hydrotreated light (64742-47-8)	
Persistence and degradability	Rapidly degradable

Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
Persistence and degradability	Rapidly degradable
Talc ($Mg_3H_2(SiO_3)_4$) (14807-96-6)	
Persistence and degradability	Rapidly degradable
Wollastonite ($Ca(SiO_3)$) (13983-17-0)	
Persistence and degradability	Rapidly degradable
Titanium dioxide (13463-67-7)	
Persistence and degradability	Rapidly degradable
Silica, amorphous (7631-86-9)	
Persistence and degradability	Rapidly degradable
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
Persistence and degradability	Rapidly degradable
Quartz (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Acetone (67-64-1)	
Persistence and degradability	Biodegradable in the soil, Biodegradable in the soil under anaerobic conditions, Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.43 g O_2/g substance
Chemical oxygen demand (COD)	1.92 g O_2/g substance
ThOD	2.2 g O_2/g substance
Distillates, petroleum, light distillate hydrotreating process, low-boiling (68410-97-9)	
Persistence and degradability	Rapidly degradable
Naphtha, petroleum, hydrotreated light (64742-49-0)	
Persistence and degradability	Rapidly degradable
Octane (111-65-9)	
Persistence and degradability	Rapidly degradable
n-Heptane (142-82-5)	
Persistence and degradability	Rapidly degradable
2-Butoxyethanol (111-76-2)	
Persistence and degradability	Rapidly degradable
2-Propanol, 1-methoxy- (107-98-2)	
Persistence and degradability	Rapidly degradable
Propane (74-98-6)	
Persistence and degradability	Rapidly degradable

n-Butane (106-97-8)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Petroleum distillates, hydrotreated light (64742-47-8)	
BCF - Fish [1]	61 – 159

Talc (Mg3H2(SiO3)4) (14807-96-6)	
BCF - Fish [1]	(no known bioaccumulation)

Silica, amorphous (7631-86-9)	
BCF - Fish [1]	(no bioaccumulation expected)

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
BCF - Fish [1]	230 – 2500
Partition coefficient n-octanol/water (Log Pow)	5.1

Quartz (14808-60-7)	
Bioaccumulative potential	No bioaccumulation data available.

Acetone (67-64-1)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Fish [1]	(0.69 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	-0.24

Octane (111-65-9)	
Partition coefficient n-octanol/water (Log Pow)	5.18

n-Heptane (142-82-5)	
Partition coefficient n-octanol/water (Log Pow)	4.66

2-Butoxyethanol (111-76-2)	
Partition coefficient n-octanol/water (Log Pow)	0.81 (at 25 °C (at pH 7)

2-Propanol, 1-methoxy- (107-98-2)	
BCF - Fish [1]	(2 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	< 1 (at 20 °C (at pH 6.8)

Propane (74-98-6)	
Partition coefficient n-octanol/water (Log Pow)	1.09 (at 20 °C (at pH 7)

n-Butane (106-97-8)	
Partition coefficient n-octanol/water (Log Pow)	2.31 (at 20 °C (at pH 7)

12.4. Mobility in soil

Quartz (14808-60-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.

Acetone (67-64-1)	
Surface tension	23.3 mN/m (20 °C)
Ecology - soil	Highly mobile in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

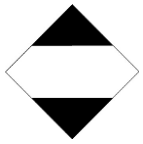
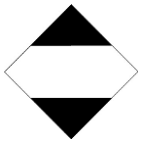
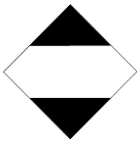
Waste treatment methods : Dispose of the material collected according to regulations.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling, disposal or collection.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN Number			
UN1950	UN1950	1950	1950
14.2. UN Proper Shipping Name			
AEROSOLS	Aerosols	AEROSOLS	Aerosols, flammable
Transport document description			
UN1950 AEROSOLS, 2.1	UN1950 Aerosols, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1
14.3. Transport hazard class(es)			
LTD QTY	LTD QTY	LTD QTY	LTD QTY Y
			
14.4. Packing group, if applicable			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

14.6. Special precautions for user

TDG

UN-No. (TDG) : UN1950

Excepted quantities (TDG)	:	E0
Emergency Response Guide (ERG) Number	:	126

DOT

UN-No. (DOT)	:	UN1950
DOT Special Provisions (49 CFR 172.102)	:	N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	150 kg
DOT Vessel Stowage Location	:	A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	25 - Shade from radiant heat,87 - Stow ‘‘separated from’’ Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

IMDG

Special provision (IMDG)	:	63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	:	SP277
Excepted quantities (IMDG)	:	E0
Packing instructions (IMDG)	:	P207, LP200
Packing provisions (IMDG)	:	PP87, L2
EmS-No. (Fire)	:	F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage)	:	S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG)	:	None
Stowage and handling (IMDG)	:	SW1, SW22
Segregation (IMDG)	:	SG69

IATA

PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Y203
PCA limited quantity max net quantity (IATA)	:	30kgG
PCA packing instructions (IATA)	:	203
PCA max net quantity (IATA)	:	75kg
CAO packing instructions (IATA)	:	203
CAO max net quantity (IATA)	:	150kg
Special provision (IATA)	:	A145, A167, A802
ERG code (IATA)	:	10L

14.7. Transport in bulk according to Annex II of MARPOL 73/789(^9) and the IBC Code(^10)

Not applicable

SECTION 15 Regulatory information

All components of this product are present on DSL, except for:

Wollastonite (Ca(SiO3)) (13983-17-0)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Naphthalene (91-20-3)	
Toxic Substance (CEPA – Schedule I)	Yes

Benzene (71-43-2)	
Toxic Substance (CEPA – Schedule I)	Yes

2-Butoxyethanol (111-76-2)	
Toxic Substance (CEPA – Schedule I)	Yes

2-Methoxy-1-propanol (1589-47-5)	
Toxic Substance (CEPA – Schedule I)	Yes

Petroleum gases, liquefied, sweetened (68476-86-8)	
Toxic Substance (CEPA – Schedule I)	Yes

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:		
Wollastonite (Ca(SiO3))	CAS-No. 13983-17-0	5 - 10%

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Acetone (67-64-1)	
CERCLA RQ	5000 lb

Toluene (108-88-3)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb

Naphthalene (91-20-3)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	100 lb

Benzene (71-43-2)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	10 lb received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule

Ethylbenzene (100-41-4)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb

Ethylene glycol (107-21-1)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb

WARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16 Other Information

Issue date	:	09/09/2025
Other information	:	For an updated SDS, please contact the supplier or manufacturer listed on the first page of the document. Prepared by: Nu-Calgon Technical Service Phone: (314) 469-7000.

The information in the safety data sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.