Abrasive Products AB-Z, AC-D, AF-D, AG-D, AN-D, A24 R

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)
Issue date: 04/01/2025 Revision date: 04/01/2025 Supersedes: 10/02/2020 Version: 1.4

SECTION 1: Identification

1.1. Product identifier

Product form	Article
Trade name	Abrasive Products AB-Z, AC-D, AF-D, AG-D, AN-D, A24 R
Product code	BU ET&A

1.2. Recommended use and restrictions on use

Recommended use	Grinding materials
Restrictions on use	For professional use only

1.3. Supplier

Supplier
Hilti (Canada) Corp.
2201 Bristol Circle
Suite 700
CA L6H 0J8 Oakville, Ontario
Canada
T +1905 8139200
1-800-363-4458 toll free, F +1 905 813 9009
ca-sales@hilti.com

Department issuing data specification sheet
Hilti AG
Feldkircherstraße 100
FL 9494 Schaan
Liechtenstein
T +423 234 2111
product.compliance-power.tools@hilti.com

1.4. Emergency telephone number

Emergency number	Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 101022 (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Not classified

2.2. GHS Label elements, including precautionary statements

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Aluminium oxide	-	CAS-No.: 1344-28-1	< 100	Not classified
silicon carbide	silicon carbide silicon carbide (SiC) / silicon monocarbide	CAS-No.: 409-21-2	< 80	Not classified
Iron sulfide (FeS2)	-	CAS-No.: 12068-85-8	0 - 30	Resp. Sens. 1, H334 Skin Sens. 1, H317
phenol/formaldehyde, resins	phenol condensation products / phenol, polymer with formaldehyde / phenolic resin	CAS-No.: 9003-35-4	0 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319
trisodium hexafluoroaluminate	trisodium hexafluoroaluminate aluminate(3-), hexafluoro-, trisodium, (OC-6-11)- / aluminum sodium fluoride / sodiumaluminofluoride	CAS-No.: 13775-53-6	0 - 30	Acute Tox. 4 (Inhalation), H332 STOT RE 1, H372
Aluminum potassium fluoride	Aluminum potassium fluoride cryolite / Cryolite (Na3(AlF6)) / cryolith	CAS-No.: 60304-36-1	0 - 30	Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Lact., H362 STOT RE 1, H372
Barium sulfate	Barium sulfate acid barium salt / barium salt of sulfuric acid / barium sulfate (1:1)	CAS-No.: 7727-43-7	0 - 10	Not classified
calcium oxide	calcium oxide burnt lime / calcia / calcium monoxide / calcium oxide (CaO)	CAS-No.: 1305-78-8	0 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
calcium carbonate	calc spar / chalk, prepared	CAS-No.: 471-34-1	0 - 10	Not classified

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Graphite	Graphite carbon-graphite / graphite,natural / graphite,powder (=grafiet)	CAS-No.: 7782-42-5	0 - 5	Not classified
Titanium dioxide	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	CAS-No.: 13463-67-7	0 - 5	Carc. 2, H351

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. When symptoms occur: go into open air and ventilate suspected area.

First-aid measures after skin contact: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth. If necessary seek medical advice.

First-aid measures general: If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation: May cause respiratory irritation.

Symptoms/effects after skin contact: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/effects after eye contact: May cause severe irritation.

Potential adverse human health effects and symptoms: Irritation: may cause irritation to the respiratory system.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment: Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media: Water. Sand. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media: Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

Fire hazard: Not flammable.

Explosion hazard: No direct explosion hazard.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	Use extinguishing agent suitable for surrounding fire.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Notify authorities if product enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

For containment	Using a clean shovel, put the material in a dry container and cover without compressing it.
Methods for cleaning up	Shovel into suitable and closed container for disposal.
Other information	Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	The product should not be used for purposes other than those shown above without first referring to the supplier and obtaining written handling instructions.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	Normal use of this product shall imply use in accordance with the instructions on the packaging and in line with the expectations of a professional user.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store in a dry place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Barium sulfate (7727-43-7)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Barium sulfate
OEL TWA	10 mg/m³
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Barium sulfate
VEMP (OEL TWAEV)	5 mg/m³ Id
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	
Local name	Barium sulfate

Barium sulfate (7727-43-7)	
OEL TWA	5 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	
Local name	Barium sulfate
OEL TWA	5 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: Pneumoconiosis
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Barium sulfate
OEL TWA	5 mg/m³
Notations and remarks	Pneumoconiosis
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Barium sulfate
OEL TWA	5 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: Pneumoconiosis
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Barium sulfate
OEL TWA	5 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: Pneumoconiosis
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Barium sulphate
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	
Local name	Barium sulphate
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)

Barium sulfate (7727-43-7)	
Canada (Ontario) - Occupational Exposure Limits	
Local name	Barium sulfate
OEL TWAEV	5 mg/m³ (I - Inhalable fraction) (E - The value is for particulate matter containing no asbestos and < 1 per cent crystalline silica)
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Barium sulfate
OEL TWA	5 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: Pneumoconiosis
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Barium sulphate
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

Graphite (7782-42-5)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Graphite (all forms except graphite fibres)
OEL TWA	2 mg/m³ respirable
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Graphite (all forms except fibers)
VEMP (OEL TWAEV)	2 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	
Local name	Graphite - All forms except graphite fibres
OEL TWA	2 mg/m³ Respirable
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Graphite, all forms except graphite fibers
OEL TWA	2 mg/m³ (R - Respirable particulate matter)
Notations and remarks	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2025

Graphite (7782-42-5)	
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Graphite
OEL TWA	2 mg/m³
Notations and remarks	Pneumoconiosis
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Graphite, all forms except graphite fibers
OEL TWA	2 mg/m³ (R - Respirable particulate matter)
Notations and remarks	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Graphite, all forms except graphite fibers
OEL TWA	2 mg/m³ (R - Respirable particulate matter)
Notations and remarks	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Graphite, natural-all forms except graphite fibres
OEL TWA	2 mg/m³ (respirable fraction)
OEL STEL	4 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	
Local name	Graphite, natural-all forms except graphite fibres
OEL TWA	2 mg/m³ (respirable fraction)
OEL STEL	4 mg/m³ (respirable fraction)
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Graphite (all forms except graphite fibers)
OEL TWAEV	2 mg/m³ (R - Respirable fraction)
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Graphite, all forms except graphite fibers
OEL TWA	2 mg/m³ (R - Respirable particulate matter)
Notations and remarks	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Graphite, natural-all forms except graphite fibres

Graphite (7782-42-5)	
OEL TWA	2 mg/m³ (respirable fraction)
OEL STEL	4 mg/m³ (respirable fraction)
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

calcium oxide (1305-78-8)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Calcium oxide
OEL TWA	2 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	
Local name	Calcium oxide
VEMP (OEL TWAEV)	2 mg/m³
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Calcium oxide
OEL TWA	2 mg/m³
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Calcium oxide
OEL TWA	2 mg/m³
Notations and remarks	TLV® Basis: Eye, URT & Skin irr
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Calcium oxide
OEL TWA	2 mg/m³
Notations and remarks	TLV® Basis: Eye, URT & Skin irr
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Calcium oxide
OEL TWA	2 mg/m³
Notations and remarks	TLV® Basis: Eye, URT & Skin irr
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Calcium oxide

calcium oxide (1305-78-8)	
OEL TWA	2 mg/m³
OEL STEL	4 mg/m³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Calcium oxide
OEL TWA	2 mg/m³
OEL STEL	4 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Calcium oxide
OEL TWAEV	2 mg/m³
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Calcium oxide
OEL TWA	2 mg/m³
Notations and remarks	TLV® Basis: Eye, URT & Skin irr
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Calcium oxide
OEL TWA	2 mg/m³
OEL STEL	4 mg/m³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

silicon carbide (409-21-2)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Silicon carbide
OEL TWA	10 mg/m³ Nonfibrous Total particulate 3 mg/m³ Nonfibrous Respirable particulate 0.1 fibers/cm³ Fibrous (including whiskers)
Notations and remarks	Non fibrous: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required. Fibrous: Carcinogenicity A2
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Silicon carbide (non fibrous)
VEMP (OEL TWAEV)	10 mg/m³ Td 3 mg/m³ Rd

silicon carbide (409-21-2)	
Notations and remarks	RP, 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	
Local name	Silicon carbide, Nonfibrous
OEL TWA	10 mg/m³ Inhalable. (E) - the value is for particulate matter containing no asbestos and less than 1% crystalline silica 3 mg/m³ Respirable. (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	
Local name	Silicon carbide
OEL TWA	10 mg/m³ (Non fibrous. E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, I - Inhalable particulate matter) 3 mg/m³ (Non fibrous. E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, R - Respirable particulate matter)
	0.1 fibers/cm³ (Fibrous (including whiskers). F - Respirable fibers)
Notations and remarks	Non fibrous = TLV® Basis: Pulm dam Fibrous (including whiskers) = TLV® Basis: Lung fibrosis; cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Silicon carbide
OEL TWA	10 mg/m³ (Non fibrous. E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, I - Inhalable particulate matter) 3 mg/m³ (Non fibrous. E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, R - Respirable particulate matter)
	0.1 fibers/cm³ (Fibrous (including whiskers). F - Respirable fibers)
Notations and remarks	Non fibrous = TLV® Basis: Pulm dam Fibrous (including whiskers) = TLV® Basis: Lung fibrosis; cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Silicon carbide
OEL TWA	10 mg/m³ (Non fibrous. E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, I - Inhalable particulate matter) 3 mg/m³ (Non fibrous. E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, R - Respirable particulate matter)
	0.1 fibers/cm³ (Fibrous (including whiskers). F - Respirable fibers)

silicon carbide (409-21-2)	
Notations and remarks	Non fibrous = TLV® Basis: Pulm dam Fibrous (including whiskers) = TLV® Basis: Lung fibrosis; cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Silicon Carbide: Nonfibrous
OEL TWA	10 mg/m³ (inhalable fraction) 3 mg/m³ (respirable fraction)
OEL STEL	20 mg/m³ (inhalable fraction) 6 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	
Local name	Silicon Carbide - Nonfibrous
OEL TWA	10 mg/m³ (inhalable fraction) 3 mg/m³ (respirable fraction)
OEL STEL	20 mg/m³ (inhalable fraction) 6 mg/m³ (respirable fraction)
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Silicon carbide - Non-fibrous
OEL TWAEV	10 mg/m³ (I - Inhalable fraction) (E - The value is for particulate matter containing no asbestos and < 1 per cent crystalline silica) 3 mg/m³ (R - Respirable fraction) (E - The value is for particulate matter containing no asbestos and < 1 per cent crystalline silica)
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Silicon carbide
OEL TWA	10 mg/m³ (Non fibrous. E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, I - Inhalable particulate matter) 3 mg/m³ (Non fibrous. E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, R - Respirable particulate matter)
	0.1 fibers/cm³ (Fibrous (including whiskers). F - Respirable fibers)
Notations and remarks	Non fibrous = TLV® Basis: Pulm dam Fibrous (including whiskers) = TLV® Basis: Lung fibrosis; cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Silicon Carbide: Nonfibrous
OEL TWA	10 mg/m³ (inhalable fraction) 3 mg/m³ (respirable fraction)

silicon carbide (409-21-2)	
OEL STEL	20 mg/m³ (inhalable fraction) 6 mg/m³ (respirable fraction)
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

Aluminium oxide (1344-28-1)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Aluminum oxide (Alumina)
OEL TWA	10 mg/m³
Regulatory reference	Alberta Regulation 191/2021
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Aluminum oxide
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	
Local name	Aluminum oxide
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Aluminum oxide
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

calcium carbonate (471-34-1)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Calcium carbonate
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	
Local name	Calcium carbonate
VEMP (OEL TWAEV)	10 mg/m³ Td
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety

calcium carbonate (471-34-1)	
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Limestone (calcium carbonate)
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	
Local name	Limestone (calcium carbonate)
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Limestone (calcium carbonate)
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

Titanium dioxide (13463-67-7)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Titanium dioxide
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	
Local name	Titanium dioxide
VEMP (OEL TWAEV)	10 mg/m³ Td
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	
Local name	Titanium dioxide
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	
Local name	Titanium dioxide

Titanium dioxide (13463-67-7)	
OEL TWA	0.2 mg/m³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m³ (Finescale particles. R - Repirable 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	
Local name	Titanium dioxide
OEL TWA	10 mg/m³
Notations and remarks	LRT irr
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m³ (Finescale particles. R - Repirable 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 (Nova Scotia) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m³ (Finescale particles. R - Repirable 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	
Local name	Titanium dioxide
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	
Local name	Titanium dioxide
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	
Local name	Titanium dioxide
OEL TWAEV	10 mg/m³
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833

Titanium dioxide (13463-67-7)	
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m³ (Finescale particles. R - Repirable 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	
Local name	Titanium dioxide
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

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:
Dust formation: dust mask. In case of dust production: protective goggles. Gloves. Protective clothing.

Materials for protective clothing:	
Condition	**Material**
	Flame retardant protective clothing

Hand protection:
Protective gloves

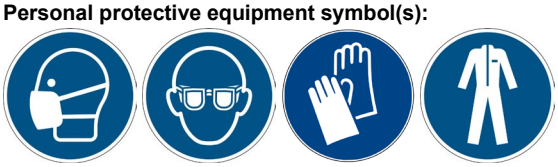
Eye protection:		
Safety glasses		
Type	**Field of application**	**Characteristics**
Safety glasses	Dust	

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition
		Dust protection

Personal protective equipment symbol(s):



Other information:

Hazardous dust of the workpiece material may be generated during grinding / drilling and / or sanding operations. National regulations for dust exposure limit values have to be taken into consideration as part of the job hazard assessment.

Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	No data available
Colour	brown to dark brown
Odour	odourless
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Relative evaporation rate (ether=1)	No data available
Melting point	No data available
Freezing point	Not applicable
Boiling point	No data available
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	Not applicable
Explosive limits	Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport. Product is not explosive.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to avoid	None under recommended storage and handling conditions (see section 7).

Incompatible materials	No additional information available
Hazardous decomposition products	Do not expose to temperatures above 250°C. Hazardous decomposition byproducts may form with exposure to high temperatures.
Hardening time:	No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

trisodium hexafluoroaluminate (13775-53-6)	
LD50 oral rat	> 5000 mg/kg bodyweight (EU Method B.1)
LD50 dermal rat	> 2100 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	4.47 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

Aluminum potassium fluoride (60304-36-1)	
LC50 Inhalation - Rat	4.5 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

Barium sulfate (7727-43-7)	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg bodyweight ((OECD 402 method); <tx:KFT_READ-ACROSS>)

Graphite (7782-42-5)	
LD50 oral rat	> 2000 mg/kg (OECD 423)
LC50 Inhalation - Rat	> 2000 mg/m³ (4h; OECD 403)

calcium oxide (1305-78-8)	
LD50 oral rat	> 2000 mg/kg (OECD 425 method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	> 2500 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 6.04 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 15 day(s))

silicon carbide (409-21-2)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Aluminium oxide (1344-28-1)	
LD50 oral rat	> 15900 mg/kg
LC50 Inhalation - Rat	7.6 mg/l
LC50 Inhalation - Rat (Dust/Mist)	> 2.3 mg/l/4h (OECD 403 method)

phenol/formaldehyde, resins (9003-35-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

calcium carbonate (471-34-1)	
LD50 oral rat	> 2000 mg/kg (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 3 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 15 day(s))

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	5000 mg/kg
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

silicon carbide (409-21-2)	
IARC group	2A - Probably carcinogenic to humans

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

Reproductive toxicity	Not classified
STOT-single exposure	Not classified

calcium oxide (1305-78-8)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure	Not classified

trisodium hexafluoroaluminate (13775-53-6)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aluminum potassium fluoride (60304-36-1)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

calcium oxide (1305-78-8)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard	Not classified

Abrasive Products AB-Z, AC-D, AF-D, AG-D, AN-D, A24 R	
Viscosity, kinematic	Not applicable

Likely routes of exposure	Inhalation.
Potential adverse human health effects and symptoms	Irritation: may cause irritation to the respiratory system.
Symptoms/effects after inhalation	May cause respiratory irritation.
Symptoms/effects after skin contact	None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	May cause severe irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short–term (acute)	Not classified
Hazardous to the aquatic environment, long–term (chronic)	Not classified

trisodium hexafluoroaluminate (13775-53-6)	
LC50 - Fish [1]	99 mg/l (96 h; Danio rerio; (OECD 203 method))
EC50 - Crustacea [1]	156 mg/l (48 h; Daphnia magna; (OECD 202 method))
ErC50 algae	3.2 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method))
EC50 72h - Algae [1]	3.2 mg/l (OECD 201: Alga, Growth Inhibition Test, Selenastrum capricornutum, Static system, Fresh water, Experimental value, Biomass)

Aluminum potassium fluoride (60304-36-1)	
LC50 - Fish [1]	99 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	156 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	3.2 mg/l (OECD 201: Alga, Growth Inhibition Test, Selenastrum capricornutum, Static system, Fresh water, Experimental value, Biomass)

Barium sulfate (7727-43-7)	
LC50 - Fish [1]	> 174 mg/l (96 h; Danio rerio; (OECD 203 method))
EC50 - Crustacea [1]	14.5 mg/l (48 h; Daphnia magna; Barium)
ErC50 algae	> 100 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method))
NOEC chronic fish	> 100 mg/l (33 d; Danio rerio; (OECD 210 method))
NOEC chronic crustacea	5.8 mg/l (48 h; Daphnia magna; Barium)

Graphite (7782-42-5)	
LC50 - Fish [1]	> 100 mg/l (96h; Danio rerio; OECD 203)
EC50 - Crustacea [1]	> 100 mg/l (48h; Daphnia magna; OECD 202)
EC50 72h - Algae [1]	> 100 mg/l (72h; Pseudokirchnerella subcapitata; OECD 201)

calcium oxide (1305-78-8)	
LC50 - Fish [1]	50.6 mg/l (96 h; Oncorhynchus mykiss; (OECD 203 method))

calcium oxide (1305-78-8)	
EC50 - Crustacea [1]	49.1 mg/l (48 h; Daphnia magna; (OECD 202 method))
ErC50 algae	184.57 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method))
EC50 72h - Algae [1]	184.57 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	32 mg/l Test organisms (species): Crangon septemspinosa Duration: '14 d'

silicon carbide (409-21-2)	
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 48 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
NOEC chronic crustacea	≥ 100 mg/l (22d;Daphnia magna; OECD Guideline 211)

calcium carbonate (471-34-1)	
LC50 - Fish [1]	> 100 % (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 100 % (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)

Titanium dioxide (13463-67-7)	
LC50 - Fish [1]	> 1000 mg/l (Pisces, Fresh water)
LC50 - Other aquatic organisms [1]	> 10000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l (Invertebrata, Fresh water)
EC50 - Crustacea [2]	> 10000 mg/l
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

12.2. Persistence and degradability

Abrasive Products AB-Z, AC-D, AF-D, AG-D, AN-D, A24 R	
Persistence and degradability	Not applicable for inorganic products.

trisodium hexafluoroaluminate (13775-53-6)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Aluminum potassium fluoride (60304-36-1)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable

Aluminum potassium fluoride (60304-36-1)	
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Barium sulfate (7727-43-7)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Graphite (7782-42-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
calcium oxide (1305-78-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
silicon carbide (409-21-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Aluminium oxide (1344-28-1)	
Not rapidly degradable	
Persistence and degradability	Not applicable.
phenol/formaldehyde, resins (9003-35-4)	
Persistence and degradability	Biodegradability in water: no data available.
calcium carbonate (471-34-1)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Titanium dioxide (13463-67-7)	
Not rapidly degradable	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

Abrasive Products AB-Z, AC-D, AF-D, AG-D, AN-D, A24 R	
Bioaccumulative potential	Bioaccumulation unlikely.

trisodium hexafluoroaluminate (13775-53-6)	
Bioaccumulative potential	Bioaccumulation: not applicable.

Aluminum potassium fluoride (60304-36-1)	
Bioaccumulative potential	Bioaccumulation: not applicable.

Barium sulfate (7727-43-7)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Fish [1]	1.2 – 74.4 l/kg (Lepomis macrochirus, Fresh water, Experimental value)

Graphite (7782-42-5)	
Bioaccumulative potential	Not bioaccumulative.

calcium oxide (1305-78-8)	
Bioaccumulative potential	Not bioaccumulative.

silicon carbide (409-21-2)	
Bioaccumulative potential	Not bioaccumulative.

Aluminium oxide (1344-28-1)	
Bioaccumulative potential	Not applicable.

phenol/formaldehyde, resins (9003-35-4)	
Bioaccumulative potential	No bioaccumulation data available.

calcium carbonate (471-34-1)	
Bioaccumulative potential	Not bioaccumulative.

Titanium dioxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

trisodium hexafluoroaluminate (13775-53-6)	
Ecology - soil	Low potential for mobility in soil. Toxic to soil organisms.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.8 – 3.8 (log Koc, Other, Experimental value)

Aluminum potassium fluoride (60304-36-1)	
Ecology - soil	Low potential for mobility in soil. Toxic to soil organisms.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.8 – 3.8 (log Koc, Other, Experimental value)

Barium sulfate (7727-43-7)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.

calcium oxide (1305-78-8)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.

silicon carbide (409-21-2)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for adsorption in soil.

calcium carbonate (471-34-1)	
Surface tension	No data available (test not performed)
Ecology - soil	Low potential for adsorption in soil.

Titanium dioxide (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.

12.5. Other adverse effects

Ozone: Not classified
Other information: Do not allow the product, as is, to spread into the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation: Disposal must be done according to official regulations.
Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecological information: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

TDG
Not regulated

DOT
Not regulated

IMDG
Not regulated

IATA
Not regulated

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Abrasive Products AB-Z, AC-D, AF-D, AG-D, AN-D, A24 R	
Canada DSL NDSL Flags	All components of this product are listed, or excluded from listing, on the Canadian Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

trisodium hexafluoroaluminate (13775-53-6)
Listed on the Canadian DSL (Domestic Substances List)

Aluminum potassium fluoride (60304-36-1)
Listed on the Canadian DSL (Domestic Substances List)

Barium sulfate (7727-43-7)
Listed on the Canadian DSL (Domestic Substances List)

Graphite (7782-42-5)
Listed on the Canadian DSL (Domestic Substances List)

calcium oxide (1305-78-8)
Listed on the Canadian DSL (Domestic Substances List)

silicon carbide (409-21-2)
Listed on the Canadian DSL (Domestic Substances List)

Aluminium oxide (1344-28-1)
Listed on the Canadian DSL (Domestic Substances List)

Iron sulfide (FeS2) (12068-85-8)
Listed on the Canadian NDSL (Non-Domestic Substances List)

phenol/formaldehyde, resins (9003-35-4)
Listed on the Canadian DSL (Domestic Substances List)

calcium carbonate (471-34-1)
Listed on the Canadian DSL (Domestic Substances List)

Titanium dioxide (13463-67-7)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: Other information

SDS Major/Minor	None
Issue date	04-01-2025
Revision date	04-01-2025
Supersedes	10-02-2020

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
1.3	Department issuing data specification sheet	Modified	
1.4	Emergency number	Modified	
3.2	Composition/information on ingredients	Modified	
8.1	Occupational Exposure Limits	Modified	

Data sources: European Chemicals Agency, http://echa.europa.eu/. manufacturer.

Full text of H-statements:	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
ED	Endocrine disrupting properties
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
N.O.S.	Not Otherwise Specified
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
VOC	Volatile Organic Compounds
WGK	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative
NOAEL	No-Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level

SDS_CA_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.