

GC FX 3

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR)

Issue date: 09/03/2025

Revision date: 09/03/2025

Supersedes: 07/21/2023

Version: 3.1

SECTION 1: Identification

1.1. Product identifier

Product form	Mixture
Name	GC FX 3
Product code	BU Direct Fastening

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use Gas can for use exclusively with the Hilti FX 3-A tool, For professional use only

1.4. Supplier's details

Supplier	Department issuing data specification sheet
Hilti (Canada) Corp.	Hilti AG
2201 Bristol Circle	Feldkircherstraße 100
Suite 700	FL 9494 Schaan
CA L6H 0J8 Oakville, Ontario	Liechtenstein
Canada	T +423 234 2111
T +1905 8139200	product.compliance-direct.fastening@hilti.com
1-800-363-4458 toll free, F +1 905 813 9009	

1.5. 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
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SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Gases under pressure: Compressed gas H280 Contains gas under pressure; may explode if heated.

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA)



Warning

Signal word (GHS CA)

Hazard statements (GHS CA) H280 - Contains gas under pressure; may explode if heated

Precautionary statements (GHS CA) P251 - Do not pierce or burn, even after use.

P402 - Store in a dry place.

P403 - Store in a well-ventilated place.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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2.3. Other hazards

Other hazards which do not result in classification Asphyxiant in high concentrations.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
argon	argon	CAS-No.: 7440-37-1	≥ 80	Press. Gas (Comp.), H280
Carbon dioxide	Carbon dioxide	CAS-No.: 124-38-9	10 – 25	Press. Gas (Liq.), H280

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

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. Low concentrations of CO₂ cause increased respiration and headache.

First-aid measures after skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.

First-aid measures after eye contact

Rinse immediately with plenty of water. Rinse eyes with water as a precaution.

First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

First-aid measures general

Asphyxiant in high concentrations. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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

Symptoms/effects

Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation

Respiratory complaints.

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

: The product is non-combustible. Use extinguishing agent suitable for surrounding fire.

5.2. Specific hazards arising from the hazardous product

Explosion hazard

Contains gas under pressure; may explode if heated.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions

In case of fire: stop leak if safe to do so. Continue water spray from protected position until container stays cool.

Protection during firefighting

Wear recommended personal protective equipment.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Evacuate area. Mechanically ventilate the spillage area.

Personal Precautions, Protective Equipment and

Do not attempt to take action without suitable protective equipment. Ventilate area.

Emergency Procedures

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up

: Provide adequate ventilation.

For further information refer to section 8: "Exposure controls/personal protection", For further information refer to section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Pressurized container: Do not pierce or burn, even after use. Damaged cylinders should be handled by specialists only. Carefully comply with the instructions for use.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store at temperatures not exceeding 50 °C. Protect from sunlight. Store in a well-ventilated place. Keep cool. Store in a dry place.

Incompatible products

Strong acids. Strong bases. Combustible materials.

Incompatible materials

Sources of ignition. Direct sunlight. Heat sources.

Storage temperature

-20 – 50 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon dioxide (124-38-9)

Canada (Alberta) - Occupational Exposure Limits

Local name	Carbon dioxide
OEL TWA	9000 mg/m ³
	5000 ppm
OEL STEL	54000 mg/m ³
	30000 ppm
Regulatory reference	Alberta Regulation 191/2021

Canada (Quebec) - Occupational Exposure Limits

Local name	Carbon dioxide
VECD (OEL STEV)	54000 mg/m ³
	30000 ppm
VEMP (OEL TWAEV)	9000 mg/m ³
	5000 ppm

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Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWA	5000 ppm
OEL STEL	15000 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWA	9000 mg/m ³
	5000 ppm
OEL STEL	54000 mg/m ³
	30000 ppm
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWA	9000 mg/m ³
	5000 ppm
OEL STEL	54000 mg/m ³
	30000 ppm
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWA	9000 mg/m ³
	5000 ppm
OEL STEL	54000 mg/m ³
	30000 ppm
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWA	5000 ppm
OEL STEL	30000 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)



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Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWA	5000 ppm
OEL STEL	30000 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWAEV	5000 ppm
	30000 ppm
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWA	9000 mg/m ³
	5000 ppm
OEL STEL	54000 mg/m ³
	30000 ppm
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWA	5000 ppm
OEL STEL	30000 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
Local name	Carbon dioxide
OEL TWA	9000 mg/m ³
	5000 ppm
OEL STEL	27000 mg/m ³
	15000 ppm
Regulatory reference	Yukon Occupational Health Regulations O.I.C. 1986/164
argon (7440-37-1)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Argon
Notations and remarks	Substance is a simple asphyxiant that may create an atmosphere deficient in oxygen; available oxygen in the range of 19.5 percent to 23 percent by volume must be present.



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Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Argon
Notations and remarks	Simple asphyxiant
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Argon
Notations and remarks	Simple asphyxiant
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Argon
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Argon
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Argon
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Ontario) - Occupational Exposure Limits	
Local name	Argon
Notations and remarks	Simple asphyxiant
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Argon
Notations and remarks	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2025
Canada (Yukon) - Occupational Exposure Limits	
Local name	Argon
Notations and remarks	Asphyxiant substance
Regulatory reference	Yukon Occupational Health Regulations O.I.C. 1986/164

8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station. Systems under pressure should be regularly checked for leakages.

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Environmental exposure controls

No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety. Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Not required for normal conditions of use

Eye protection:

Safety glasses. CSA Z94.3:20

Type	Field of application	Characteristics
Safety glasses		clear

Respiratory protection:

Keep self contained breathing apparatus readily available for emergency use.

Personal protective equipment symbol(s):



Thermal hazard protection:

No information available.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Gas
Appearance	No data available
Colour	Colourless
Odour	odourless
Odour threshold	No data available
pH	Not applicable
Relative evaporation rate (butylacetate=1)	No data available
Relative evaporation rate (ether=1)	No data available
Melting point	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable
Vapour pressure	Not available

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Vapour pressure at 50°C	Not available
Relative vapour density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Explosive limits	No data available
Particle size	Not applicable

9.2. Other information

Gas group	Gases under pressure : Compressed gas
Other properties	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to avoid	Direct sunlight. Extremely high or low temperatures. Moisture.
Incompatible materials	No additional information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Respiratory or skin sensitization	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	Not applicable
Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	Respiratory complaints.

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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 (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	Not classified (Based on available data, the classification criteria are not met)

Carbon dioxide (124-38-9)

LC50 - Fish [1]	35 ppm (96 h; <i>Salmo gairdneri</i> ; Literature data)
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12.2. Persistence and degradability

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Persistence and degradability	Not established.
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Carbon dioxide (124-38-9)

Persistence and degradability	Not applicable.
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argon (7440-37-1)

Persistence and degradability	Not applicable.
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12.3. Bioaccumulative potential

Carbon dioxide (124-38-9)

Partition coefficient n-octanol/water (Log Pow)	0.83 (Measured)
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argon (7440-37-1)

Partition coefficient n-octanol/water (Log Pow)	0.74 (Measured)
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12.4. Mobility in soil

Carbon dioxide (124-38-9)

argon (7440-37-1)

12.5. Other adverse effects

Ozone Not classified (Based on available data, the classification criteria are not met)

Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

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.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

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TDG	DOT	IMDG	IATA
14.1. UN number			
UN1956	1956	1956	1956
14.2. Proper Shipping Name			
COMPRESSED GAS, N.O.S. (Argon, Carbon dioxide mixture)	Compressed gas, n.o.s. (Argon, Carbon dioxide mixture)	COMPRESSED GAS, N.O.S. (Argon, Carbon dioxide mixture)	Compressed gas, n.o.s. (Argon, Carbon dioxide mixture)
14.3. Transport hazard class(es)			
2.2	2.2	2.2	2.2
			
14.4. Packing group			
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)

: UN1956

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TDG Special Provisions

: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3).

(2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:

- (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;
- (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;
- (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;
- (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or
- (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.

(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:

- (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
- (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 148 - (1) Part 5 (Means of Containment) does not apply to radiation detectors that contain these dangerous goods in non-refillable pressure receptacles if
 - (a) the working pressure in each receptacle is less than 5 000 KPa;
 - (b) the capacity of each receptacle is less than 12 L;
 - (c) each receptacle has a minimum burst pressure of
 - (i) at least 3 times the working pressure, when the receptacle is fitted with a relief device, or
 - (ii) at least 4 times the working pressure, when the receptacle is not fitted with a relief device;
 - (d) each receptacle is manufactured from material that will not fragment upon rupture;
 - (e) each detector is manufactured under a quality assurance program;
 - (f) the detectors are transported in strong outer means of containment; and
 - (g) a detector in its outer means of containment is capable of withstanding a 1.2 m drop test without breakage of the detector or rupture of the outer means of containment.
- (2) Part 5 (Means of Containment) does not apply to radiation detectors that contain these dangerous goods in non-refillable pressure receptacles and that are included in equipment, if
 - (a) the conditions set out in paragraphs (1)(a) to (e) are met; and
 - (b) the equipment is contained in a strong outer means of containment or the equipment affords the detectors with protection that is equivalent to that provided by a strong outer means of containment.
- (3) These Regulations, except for Parts 1 and 2, do not apply to radiation detectors that contain these dangerous goods in non-refillable pressure receptacles, including detectors in radiation detection systems, if the detectors meet the requirements of subsection (1) or (2), as applicable, and the capacity of the receptacles that contain the detectors is less than 50 mL.

Explosive Limit and Limited Quantity Index

: 0.125 L

Excepted quantities (TDG)

: E0

Passenger Carrying Road Vehicle or Passenger

: 75 L

Carrying Railway Vehicle Index

: 126

Emergency Response Guide (ERG) Number

DOT

UN-No. (DOT)

: UN1956

DOT Packaging Exceptions (49 CFR 173.xxx)

: 306;307

DOT Packaging Non Bulk (49 CFR 173.xxx)

: 302, 305

DOT Packaging Bulk (49 CFR 173.xxx)

: 314, 315

DOT Quantity Limitations Passenger aircraft/rail (49

: 75 kg

CFR 173.27)



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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.

IMDG

Special provisions (IMDG)

: 274, 378, 392

Limited quantities (IMDG)

: 120 ml

Excepted quantities (IMDG)

: E1

Packing instructions (IMDG)

: P200

EmS-No. (Fire)

: F-C - FIRE SCHEDULE Charlie - NON-FLAMMABLE GASES

EmS-No. (Spillage)

: S-V - SPILLAGE SCHEDULE Victor - GASES (NON-FLAMMABLE, NON-TOXIC)

Stowage category (IMDG)

: A

Flash point (IMDG)

:

Properties and observations (IMDG)

:

MFAG-No

: 126

IATA

PCA Excepted quantities (IATA)

: E1

PCA Limited quantities (IATA)

: Forbidden

PCA limited quantity max net quantity (IATA)

: Forbidden

PCA packing instructions (IATA)

: 200

PCA max net quantity (IATA)

: 75kg

CAO packing instructions (IATA)

: 200

CAO max net quantity (IATA)

: 150kg

Special provisions (IATA)

: A202

ERG code (IATA)

: 2L

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

GC FX 3

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)

Carbon dioxide (124-38-9)

Listed on the Canadian DSL (Domestic Substances List)

argon (7440-37-1)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: Other information

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Indication of changes			
Section	Changed item	Change	Comments
3.2	Composition/information on ingredients	Modified	

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

Full text of hazard classes and H-statements:	
H280	Contains gas under pressure; may explode if heated

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

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Abbreviations and acronyms:

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.