

# Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Issue date: 08/04/2020 Revision date: 08/04/2020 Supersedes: Version: 1.0

# SECTION 1: Identification of the hazardous chemical and of the supplier

**Product identifier** 

Generic name GC FX 3
Product form Mixture

Product code BU Direct Fastening

Other means of identification

No additional information available

Relevant identified uses of the substance or mixture and uses advised against

Recommended use Gas can for use exclusively with the Hilti FX 3-A tool.

For professional use only

Supplier's details

Supplier Hilti (New Zealand) Ltd.

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Department issuing data specification sheet

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+64 9 571 9995 ; 800 444 584 toll free

Country	Organisation/Company	Address	Emergency number
New Zealand	National Poisons Centre		0800 623 000

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

GSUP-C Press. Gas (Comp.)

## 2.2. Label elements

Hazard pictograms (GHS NZ)



CHSU

Signal word (GHS NZ) Warning

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

Precautionary statements (GHS NZ) 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  $^{\circ}\text{C}$ 

# 2.3. Other hazards not contributing to the classification

Other hazards not contributing to the

classification

Asphyxiant in high concentrations

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# SECTION 3: Composition and information of the ingredients of the hazardous chemical

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc.	Classification according to the United Nations GHS (Rev. 4, 2011)
argon, compressed	(CAS-No.) 7440-37-1	>= 80	Press. Gas (Comp.), H280
carbon dioxide, liquefied, under pressure	(CAS-No.) 124-38-9	10 - 25	Press. Gas (Liq.), H280 9.1D: Aquatic Acute 3, H402

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

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).

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.

### 4.2. Most important symptoms and effects, both acute and delayed

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

Symptoms/effects after inhalation Breathing difficulties.

### 4.3. Indication of any immediate medical attention and special treatment needed

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media The product itself does not burn. Use extinguishing agent suitable for surrounding fire.

## 5.2. Special hazards arising from the substance or mixture

Explosion hazard Contains gas under pressure; may explode if heated.

Reactivity The product is non-reactive under normal conditions of use, storage and transport

### 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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EAC code 2TE - 2TE

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures Evacuate area. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment.

Emergency procedures Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Provide adequate ventilation.

## SECTION 7: Handling and storage, including how the chemical may be safely used

# 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 valves should be reported immediately to the supplier. 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

GC FX 3		
New Zealand	Local name	Carbon dioxide
New Zealand	STEL (mg/m³)	54000 mg/m³
New Zealand	STEL (ppm)	30000 ppm
New Zealand	TWA (mg/m³)	9000 mg/m³
New Zealand	TWA (ppm)	5000 ppm
New Zealand	Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 11th Edition

### Exposure limit values for the other components

No additional information available

#### 8.2. Monitoring

No additional information available

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### 8.3. Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station. Systems under pressure should be regularily

checked for leakages.

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

No additional information available

Eye protection Safety glasses

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.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

# **SECTION 9: Physical and chemical properties**

Physical state Gas

Appearance No data available
Colour Colourless
Odour odourless

Odour throubold No data available

No data available Odour threshold рΗ Not applicable Evaporation rate No data available No data available Relative evaporation rate (butylacetate=1) Melting point / Freezing point No data available Boiling point No data available Not applicable Flash point Auto-ignition temperature Not applicable Flammability (solid, gas) Non flammable. Vapour pressure No data available No data available No data available

Relative density Density Solubility No data available. Log Pow No data available Viscosity No data available Explosive properties Not applicable. Oxidising properties Not applicable Explosive limits No data available Minimum ignition energy No data available Gas group Compressed gas

## SECTION 10: Stability and reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport. 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.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

# **SECTION 11: Toxicological information**

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# 11.1. Information on toxicological effects

Acute toxicity (oral) Not classified Not classified Acute toxicity (dermal) Acute toxicity (inhalation) Not classified Skin corrosion/irritation Not classified pH: Not applicable Serious eye damage/irritation Not classified Respiratory or skin sensitisation Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Not classified Reproductive toxicity STOT-single exposure Not classified STOT-repeated exposure Not classified

Potential adverse human health effects and

symptoms

Aspiration hazard

No additional information available.

# **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)

Hazardous to the aquatic environment, long-

term (chronic)

Not classified

Not classified

Not classified

Soil toxicity

Not classified

Terrestrial vertebrate toxicity

Not classified

Not classified

Terrestrial invertebrate toxicity Not classified

Other information Avoid release to the environment.

carbon dioxide, liquefied, under pressure (124-38-9)			
LC50 fish 1 35 mg/l (96 h, Salmo gairdneri, Literature study, Lethal)			
Log Pow 0.83 (Experimental value)			
argon, compressed (7440-37-1)			
Log Pow 0.74 (Experimental value)			

# 12.2. Persistence and degradability

GC FX 3					
Persistence and degradability	Not established.				
carbon dioxide, liquefied, under pressure (12	4-38-9)				
Not rapidly degradable					
Persistence and degradability	Biodegradability: not applicable.				
Chemical oxygen demand (COD)	Not applicable (inorganic)				
ThOD	Not applicable (inorganic)				
argon, compressed (7440-37-1)	argon, compressed (7440-37-1)				
Not rapidly degradable					
Persistence and degradability	Biodegradability: not applicable.				
Chemical oxygen demand (COD)	Not applicable				
ThOD	Not applicable				
BOD (% of ThOD)	Not applicable				

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12.3. B	ioaccumulative	potential
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GC FX 3				
Bioaccumulative potential				
carbon dioxide, liquefied, under pressure (124-38-9)				
Log Pow See section 12.1 on ecotoxicology				
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).				
argon, compressed (7440-37-1)				
Log Pow	See section 12.1 on ecotoxicology			
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).				

# 12.4. Mobility in soil

GC FX 3				
Mobility in soil No additional information available				
carbon dioxide, liquefied, under pressure (124-38-9)				
Log Pow	See section 12.1 on ecotoxicology			
Ecology - soil	v - soil Not applicable (gas).			
argon, compressed (7440-37-1)				
Log Pow	See section 12.1 on ecotoxicology			

## 12.5. Other adverse effects

Ozone Not classified

GWPmix comment No known effects from this product.

Other adverse effects No additional information available

# **SECTION 13: Disposal considerations**

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 ADR / RID / IMDG / IATA / ADN

Other information No supplementary information available

ADR Regulatory status: Regulated IMDG Regulatory status: Regulated IATA Regulatory status: Regulated RID Regulatory status: Regulated

ADR	IMDG	IATA	RID	
14.1. UN number				
1956	1956	1956	1956	
14.2. UN proper shipping r	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)	
Transport document descript	ion			
UN 1956 COMPRESSED GAS, N.O.S. (Argon, Carbon dioxide mixture), 2.2	UN 1956 COMPRESSED GAS, N.O.S. (Argon, Carbon dioxide mixture), 2.2	UN 1956 Compressed gas, n.o.s. (Argon, Carbon dioxide mixture), 2.2	UN 1956 COMPRESSED GAS, N.O.S. (Argon, Carbon dioxide mixture), 2.2	

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ADR	IMDG	IATA	RID				
14.3. Transport hazard class	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 Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No				
	No supplementary information available						

### 14.6. Special precautions for user

## - Overland transport

Classification code (ADR) 1A

Special provisions (ADR) 274, 655, 662
Limited quantities (ADR) 120ml
Packing instructions (ADR) P200
Mixed packing provisions (ADR) MP9
Transport category (ADR) 3

Orange plates

20 1956

EAC code 2TE

- Transport by sea

Special provisions (IMDG) 274

Limited quantities (IMDG) 120 ml

Packing instructions (IMDG) P200

EmS-No. (Fire) F-C

EmS-No. (Spillage) S-V

Stowage category (IMDG) A

MFAG-No 126

- Air transport

PCA packing instructions (IATA) 200
PCA max net quantity (IATA) 75kg
CAO packing instructions (IATA) 200
Special provisions (IATA) A202

- Rail transport

Special provisions (RID) 274, 655, 662
Limited quantities (RID) 120ml
Packing instructions (RID) P200
Carriage prohibited (RID) No

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

Not applicable

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# **SECTION 15: Regulatory information**

### 15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

## 15.2. 15.2. Chemical safety assessment

No additional information available

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Abbreviations and acronyms 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 BCF - Bioconcentration factor

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

IARC - International Agency for Research on Cancer IATA - International Air Transport Association IMDG - International Maritime Dangerous Goods

LC50 - Median lethal concentration

OECD - Organisation for Economic Co-operation and Development

PBT - Persistent Bioaccumulative Toxic

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

vPvB - Very Persistent and Very Bioaccumulative

## Full text of H-statements:

9.1D: Aquatic Acute 3	9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 3
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
H280	Contains gas under pressure; may explode if heated.
H402	Harmful to aquatic life

SDS\_NZ\_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.

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