

Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

Issue date: 27/06/2023 Revision date: 27/06/2023 Supersedes: 21/03/2018 Version: 2.0

SECTION 1: Identification

1.1 Product identifier

Name GC 52 Product form Mixture

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 For professional use only

Propellant for direct fastening tools.

1.4 Details of manufacturer or importer

Supplier Department iss

Hilti (New Zealand) Ltd.

Level 1, Building B 600 South Road Ellerslie

Auckland 1051 New Zealand T +64 9 571 9995

, 800 444 584 toll free - F +64 9526 7780

servicenz@hilti.com

Department issuing data specification sheet

Hilti AG

Feldkircherstraße 100

Schaan 9494 Liechtenstein T +423 234 2111 df-hse@hilti.com

1.5. Emergency phone number

Emergency number Emergency contact (24 hours per day)

GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

HSNO Approval Number HSR0002532

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Flammable gases, Category 1A H220
Gases under pressure : Compressed gas H280

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ)





Signal word (GHS NZ)

Precautionary statements

Hazard statements (GHS NZ)

Danger

H220 - Extremely flammable gas

H280 - Contains gas under pressure; may explode if heated

P102 - Keep out of reach of children.

Prevention P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

Response P381 - In case of leakage, eliminate all ignition sources.

27/06/2023 NZ - en 1/9



Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

Storage P403 - Store in a well-ventilated place.

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

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
but-1-ene	CAS-No.: 106-98-9	40 - 60	Flam. Gas 1A, H220 Press. Gas (Comp.), H280 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
propene	CAS-No.: 115-07-1	25 - 40	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Propane	CAS-No.: 74-98-6	5 - 10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general Take off immediately all contaminated clothing.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact Gently wash with plenty of soap and water.

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. Get medical advice/attention.

First-aid measures after ingestion Immediately consult a doctor/medical service.

4.2. Symptoms caused by exposure

No additional information available

4.3. Medical attention and special treatment

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide. Water spray. Dry powder. Alcohol resistant foam.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Explosion hazard Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

General measures Evacuate area. Remove ignition sources.

Hazardous decomposition products in case of fire On burning: release of (highly) toxic gases/vapours. Thermal decomposition generates :

Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions DO NOT fight fire when fire reaches explosives. Evacuate area.

27/06/2023 NZ - en 2/9



Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Self-contained breathing apparatus.

Other information EN 12942. EN 12941.

EAC code 2YE - 2YE

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Evacuate area. Remove ignition sources.

6.1.1. For non-emergency personnel

Emergency procedures Ventilate spillage area. Evacuate area. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

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

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up Do not flush with water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed Flammable gas. Do not pierce or burn, even after use. Keep away from heat, hot surfaces,

sparks, open flames and other ignition sources. No smoking.

Precautions for safe handling Do not spray on an open flame or other ignition source. Avoid contact with skin, eyes and

clothing. Do not breathe vapours. Prevent the build-up of electrostatic charge.

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

Technical measures Proper grounding procedures to avoid static electricity should be followed.

Storage conditions Keep cool. Protect from sunlight. Keep in fireproof place. Store in dry protected location to

prevent any moisture contact.

Incompatible materials Heat sources. Direct sunlight. Sources of ignition.

Storage temperature 5-25 °C

Heat and ignition sources Keep away from heat and direct sunlight. Keep away from ignition sources.

Information on mixed storage Do not store with DX powder cartridges.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

GC 52	
New Zealand - Occupational Exposure Limits	
Local name	Propane
Remark (NZ)	Simple asphyxiant – may present an explosion hazard
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 12th Edition

27/06/2023 NZ - en 3/9



Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

propene (115-07-1)			
New Zealand - Occupational Exposure Limits			
Local name	Propylene		
Remark (NZ)	Simple asphyxiant – may present an explosion hazard		
Regulatory reference Workplace Exposure Standards and Biological Exposure Indices, 13th Edition			
Propane (74-98-6)			
Fropane (14-30-0)			
New Zealand - Occupational Exposure Limits			
,	Propane		
New Zealand - Occupational Exposure Limits	Propane Simple asphyxiant – may present an explosion hazard		

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

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

Hand protection

In case of repeated or prolonged contact wear gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	0,12		EN ISO 374

Eye protection

Chemical goggles or safety glasses. ISO 16321-1. EN 170

Skin and body protection

When using cartridge operated tools, sufficient ear protection must be worn.

Respiratory protection

No respiratory protection needed under normal use conditions







SECTION 9: Physical and chemical properties

Physical state Gas

Appearance No data available Colour Colourless Odour characteristic

Odour threshold No additional information available рΗ No additional information available Evaporation rate No additional information available

Relative evaporation rate (butylacetate=1) No data available

Melting point / Freezing point No additional information available

Boiling point No data available Flash point -88.6 °C

287 °C Auto-ignition temperature

Extremely flammable aerosol. Flammability Vapour pressure Vapour pressure: 8300 hPa Relative density No additional information available

27/06/2023 NZ - en 4/9



Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

Density Density: 0.6 g/cm³ (DIN 51757)
Solubility No additional information available

Partition coefficient n-octanol/water (Log Pow)

Viscosity, dynamic

Explosive properties

Explosive limits

No data available

No data available

No data available

No data available

11.1 vol %

Minimum ignition energy No data available

Gas group Gases under pressure : Compressed gas

SECTION 10: Stability and reactivity

Reactivity No additional information available

Chemical stability Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

Extreme risk of explosion by shock, friction, fire or other sources of ignition.

Conditions to avoid Heat. Sparks. Open flame. Direct sunlight. Overheating.

Incompatible materials

No additional information available
Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Toxicity	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met)
propene (115-07-1)	
LC50 Inhalation - Rat	> 688 mg/m³
Propane (74-98-6)	
LC50 Inhalation - Rat [ppm]	> 280000 ppm (literature)
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	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 classified (Based on available data, the classification criteria are not met)
GC 52	
Vaporizer	Container fitted with a sealed spray attachment

Potential adverse human health effects and	No additional information available. No harmful effects are to be expected if used properly.
symptoms	The contained ingredients can be harmful, but they are hermetically enclosed in the article
	and can not be released

The dismantling of the article is prohibited.

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	Due to the consistency along with the low water solubility of the product a bioavailability is
	unlikely.

27/06/2023 NZ - en 5/9



Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

Hazardous to the aquatic environment, short-term Not classified

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not classified.

Soil toxicity Not classified
Terrestrial vertebrate toxicity Not classified
Terrestrial invertebrate toxicity Not classified

Other information Avoid release to the environment.

but-1-ene (106-98-9)	
LC50 - Fish [1]	14.8 mg/l (72 h; Quantitative structure-activity relationship (QSAR); Oncorhynchus mykiss)
EC50 - Crustacea [1]	18.7 mg/l (48 h; Quantitative structure-activity relationship (QSAR); Daphnia sp.)
propene (115-07-1)	
LC50 - Fish [1]	43.3 mg/l (72 h; Oncorhynchus mykiss (Rainbow trout); Quantitative structure-activity relationship (QSAR))
EC50 - Crustacea [1]	28.2 mg/l (48 h; daphnia; Quantitative structure-activity relationship (QSAR))
Partition coefficient n-octanol/water (Log Kow)	1.77 (20 °C)

12.2. Persistence and degradability

GC 52			
Persistence and degradability No additional information available			
but-1-ene (106-98-9)			
Not rapidly degradable			
propene (115-07-1)			
Persistence and degradability	Readily biodegradable in water.		
Propane (74-98-6)			
Persistence and degradability	Readily biodegradable in water.		

12.3. Bioaccumulative potential

GC 52			
Bioaccumulative potential No additional information available			
propene (115-07-1)			
Partition coefficient n-octanol/water (Log Kow)	1.77 (20 °C)		
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).		
Propane (74-98-6)			
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).		

12.4. Mobility in soil

GC 52			
Mobility in soil No additional information available			
propene (115-07-1)			
Partition coefficient n-octanol/water (Log Kow)	1.77 (20 °C)		

12.5. Other adverse effects

Ozone Not classified (Based on available data, the classification criteria are not met)
Other adverse effects No additional information available

27/06/2023 NZ - en 6/9



Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

SECTION 13: Disposal considerations

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations Additional information

Container under pressure. Do not drill or burn even after use.

Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID			
14.1. UN number or ID number						
UN 3150	UN 3150	UN 3150	UN 3150			
14.2. UN proper shipping name						
HYDROCARBON GAS REFILLS FOR SMALL DEVICES	HYDROCARBON GAS REFILLS FOR SMALL DEVICES	Hydrocarbon gas Refills for small devices	HYDROCARBON GAS REFILLS FOR SMALL DEVICES			
Transport document description						
UN 3150 HYDROCARBON GAS REFILLS FOR SMALL DEVICES, 2.1, (D)	UN 3150 HYDROCARBON GAS REFILLS FOR SMALL DEVICES, 2.1	UN 3150 Hydrocarbon gas Refills for small devices, 2.1	UN 3150 HYDROCARBON GAS REFILLS FOR SMALL DEVICES, 2.1			
14.3. Transport hazard class(e	es)					
2.1	2.1	2.1	2.1			

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 availa	able					

14.6. Special precautions for user

Overland transport

Classification code (ADR)	6F
Limited quantities (ADR)	0
Excepted quantities (ADR)	E0
Packing instructions (ADR)	P209
Mixed packing provisions (ADR)	MP9
Transport category (ADR)	2
Special provisions for carriage - Loading, unloading and handling (ADR)	CV9
Special provisions for carriage - Operation (ADR)	S2
Tunnel restriction code (ADR)	D
EAC code	2YE

Transport by sea

Limited quantities (IMDG)	0
Excepted quantities (IMDG)	E0

27/06/2023 NZ - en 7/9



Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

Packing instructions (IMDG)	P003
EmS-No. (Fire)	F-D
EmS-No. (Spillage)	S-U
Stowage category (IMDG)	В
Stowage and handling (IMDG)	SW2
MFAG-No	115

Air transport

PCA Excepted quantities (IATA)	E0
PCA Limited quantities (IATA)	Forbidden
PCA limited quantity max net quantity (IATA)	Forbidden
PCA packing instructions (IATA)	201
PCA max net quantity (IATA)	1kg
CAO packing instructions (IATA)	201
CAO max net quantity (IATA)	15kg
Special provisions (IATA)	A802
ERG code (IATA)	10L

Rail transport

Classification code (RID)	6F
Limited quantities (RID)	0
Excepted quantities (RID)	E0
Packing instructions (RID)	P209
Mixed packing provisions (RID)	MP9
Transport category (RID)	2
Special provisions for carriage - Loading, unloading	CW9
and handling (RID)	
Colis express (express parcels) (RID)	CE2
Hazard identification number (RID)	23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR0002532

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

 SDS Major/Minor
 None

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

27/06/2023 NZ - en 8/9



Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

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 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 Department issuing data specification sheet.

Training advice

Full text of H-statements		
Aquatic Acute 3	Hazardous to the aquatic environment – Acute Hazard, Category 3	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Flam. Gas 1A	Flammable gases, Category 1A	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
H220	Extremely flammable gas	
H280	Contains gas under pressure; may explode if heated	
H402	Harmful to aquatic life	
H412	Harmful to aquatic life with long lasting effects	

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.

27/06/2023 NZ - en 9/9