

Safety Data Sheet

according to the WHS Regulations

Issue date: 02/06/2023 Revision date: 02/06/2023 Supersedes: 23/02/2018 Version: 2.0

SECTION 1: Product identifier

1.1. GHS Product identifier

Mixture Product form Name GC 52

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

Hilti (Aust.) Pty. Ltd.

Level 5, 1G Homebush Bay Drive

P.O. Box 3217 Rhodes NSW 2138

Australia

T+61 131 292 - F+61 1300 135 042

serviceaustralia@hilti.com

Department issuing data specification sheet:

Hilti Entwicklungsgesellschaft mbH

Hiltistrasse 6 Kaufering 86916 Deutschland

T +49 8191 906310 - F +49 8191 90176310

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

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

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

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU)





Flame

Gas cylinder

Signal word (GHS AU) Danger

Hazard statements (GHS AU) H220 - Extremely flammable gas

H280 - Contains gas under pressure; may explode if heated

Precautionary statements (GHS AU) P102 - Keep out of reach of children.

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.

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

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

02/06/2023 All - en 1/9



Safety Data Sheet

according to the WHS Regulations

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
but-1-ene	106-98-9	40 - 60	Not classified
propene	115-07-1	25 - 40	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Propane	74-98-6	5 - 10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Polyethylene glycol	25322-68-3	1 - 3	Not classified

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.

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.

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.

02/06/2023 AU - en 2/9



Safety Data Sheet

according to the WHS Regulations

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

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

Personal protective equipment symbol(s)







SECTION 9: Physical and chemical properties

Physical state Gas

02/06/2023 AU - en 3/9



Safety Data Sheet

according to the WHS Regulations

Appearance No data available Colour Colourless Odour characteristic Odour threshold No data available No data available рΗ pH solution No data available Relative evaporation rate (butylacetate=1) No data available Melting point / Freezing point No data available Boiling point No data available -88.6 °C Flash point Auto-ignition temperature 287 °C

Flammability No data available

Vapour pressure: 8300 hPa

Relative density No data available

Density: 0.6 g/cm³ (DIN 51757)

Solubility

Partition coefficient n-octanol/water (Log Pow)

Explosive properties

Explosive limits

No data available

No data available

Minimum ignition energy

No data available

Fat solubility

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.

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

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

Possibility of hazardous reactions

No additional information available

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

STOT-repeated exposure

Aspiration hazard

Acute toxicity (oral)

Not classifiedBased on available data, the classification criteria are not met

Not classifiedBased on available data, the classification criteria are not met

Not classifiedBased on available data, the classification criteria are not met

Not classifiedBased on available data, the classification criteria are not met

riodic toxiony (definal)	Not blassificables of available data, the blassification official are not met		
Acute toxicity (inhalation)	Not classifiedBased 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)		
Polyethylene glycol (25322-68-3)			
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423 method)		
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)		
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)		

02/06/2023 AU - en 4/9



Safety Data Sheet

according to the WHS Regulations

GC 52	
Vaporizer	Container fitted with a sealed spray attachment
symptoms	No additional information available. No harmful effects are to be expected if used properly. 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

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity	
Ecology - general	Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.
Hazardous to the aquatic environment, short–term (acute)	Not classified (Not applicable)
Hazardous to the aquatic environment, long–term (chronic)	Not classified (Not applicable)
Other information	Avoid release to the environment.
but-1-ene (106-98-9)	

but-1-ene (106-96-9)		
LC50 - Fish [1]	14758 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)	
Polyethylene glycol (25322-68-3)		
LC50 - Fish [1]	> 100 mg/l (96 h; Poecilia reticulata; (OECD 203 method))	
EC50 - Crustacea [1]	> 100 mg/l (48 h; Daphnia magna; (OECD 202 method))	
ErC50 algae	100 – 1000 mg/l (96 h)	
NOEC chronic fish	13671.586 mg/l (28 d; Poecilia reticulata (Guppy)	
NOEC chronic crustacea	17475.27 mg/l (21 d; Daphnia magna; (calculated value))	

12.2. Persistence and degradability

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.	
Polyethylene glycol (25322-68-3)		
Not rapidly degradable		
Persistence and degradability	Readily biodegradable.	

02/06/2023 AU - en 5/9



Safety Data Sheet

according to the WHS Regulations

12.3. Bioaccumulative potential			
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).		
Polyethylene glycol (25322-68-3)			
Bioaccumulative potential	not bioaccumulable.		

12.4. Mobility in soil

propene (115-07-1)	
Partition coefficient n-octanol/water (Log Kow)	1.77 (20 °C)

12.5. Other adverse effects

Ozone Not classified (Not applicable)
Other adverse effects No additional information available

SECTION 13: Disposal considerations

Regional legislation (waste) 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

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(es)				
2.1	2.1	2.1	2.1	
2	2	2	2	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	

02/06/2023 AU - en 6/9



Safety Data Sheet

according to the WHS Regulations

ADR	IMDG	IATA	RID
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

6F
0
E0
P209
MP9
2
CV9
S2
D

Transport by sea

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

02/06/2023 AU - en 7/9



GC 52 Safety Data Sheet

according to the WHS Regulations

SECTION 15: Regulatory information

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

No additional information available

15.2. International agreements

No additional information available

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
	General	Modified		
1.2	Use of the substance/mixture	Modified		
8.2	Personal protective equipment	Modified		
9	Physical and chemical properties	Modified		
11	Toxicological information	Modified		
12.	Ecotoxicological information	Modified		

Data sources

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

02/06/2023 AU - en 8/9



GC 52 Safety Data Sheet

according to the WHS Regulations

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

02/06/2023

Revision date

Classification		
Flam. Gas 1A	H220	
Press. Gas (Comp.)	H280	

Full text of H-statements			
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		

SDS AU 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.

02/06/2023 AU - en 9/9