

GC 52 Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 7/29/2024Issue date: 7/29/2024Supersedes: 8/16/2023Version: 3.1

SECTION 1: Identification

1.1. Identification	
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Product form	Mixture
Name	GC 52
Product code	BU Direct Fastening

1.2. Recommended use and restrictions on use

Recommended use

For professional use only, Propellant for direct fastening tools.

Feldkircherstraße 100

Hilti AG

Schaan, 9494

Liechtenstein

T +423 234 2111

Department issuing data specification sheet

product.compliance-direct.fastening@hilti.com

1.3. Supplier

Supplier

Hilti, Inc. Legacy Tower, Suite 1000 7250 Dallas Parkway Plano, TX 75024 USA T +1 9724035800 1-800-879-8000 toll free - F +1 918 254 0522

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(s) identification

2.1. Classification of the substance or mixture		
GHS-US classification		
Flammable gases, Category 1	H220	Extremely flammable gas.
Gases under pressure : Compressed gas	H280	Contains gas under pressure; may explode if heated.
Full text of H-statements: see section 16		

GHS US labelling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

Precautionary statements (GHS US)



Danger H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heated. P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P381 - Eliminate all ignition sources if safe to do so.
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

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification	
but-1-ene	CAS-No.: 106-98-9	40 - 60	Flam. Gas 1, H220 Press. Gas (Comp.), H280	
propene	CAS-No.: 115-07-1	25 - 40	Flam. Gas 1, H220 Press. Gas (Comp.), H280	
Propane	CAS-No.: 74-98-6	5 - 10	Flam. Gas 1, H220 Press. Gas (Comp.), H280	
Polyethylene glycol	CAS-No.: 25322-68-3	1 - 3	Not classified	

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 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. Most important symptoms and effects	(acute and delayed)		
Potential adverse human health effects and 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.		

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.



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SECTION 5: Fire-fighting measures				
5.1. Suitable (and unsuitable) 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 chemi	cal			
Explosion hazard	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.			
Hazardous decomposition products in case of fire	On burning: release of (highly) toxic gases/vapours. Thermal decomposition generates : Carbon dioxide.			
5.3. Special protective equipment and precautions for fire-fighters				
Precautionary measures fire	Fight fire remotely due to the risk of explosion.			
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.			
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 material for containment and cleaning up				
Methods for cleaning up	Do not flush with water.			

information refer to section 13.

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

Proper grounding procedures to avoid static electricity should be followed.

6.4. Reference to other sections

Other information

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

SECTION 7: Handling and stora	age
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, include	ding any incompatibilities

Technical measures

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Keep cool. Protect from sunlight. Keep in fireproof place. Store in dry protected location to		
prevent any moisture contact.		
Heat sources. Direct sunlight. Sources of ignition.		
5 – 25 °C		
Keep away from heat and direct sunlight. Keep away from ignition sources.		
Do not store with DX powder cartridges.		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

GC 52			
No additional information available			
but-1-ene (106-98-9)			
USA - ACGIH - Occupational Exposure Limits			
Local name	n-Butene		
ACGIH OEL TWA	250 ppm		
Remark (ACGIH)	TLV® Basis: Body weight eff		
Regulatory reference	ACGIH 2023		
propene (115-07-1)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Propylene		
ACGIH OEL TWA	500 ppm		
Remark (ACGIH)	Asphyxia; URT irr		
Regulatory reference	ACGIH 2023		
Propane (74-98-6)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Propane		
Remark (ACGIH)	TLV® Basis: Simple Asphyxiant		
Regulatory reference ACGIH 2023			
USA - OSHA - Occupational Exposure Limits			
Local name	Propane		
OSHA PEL TWA	1800 mg/m³		
	1000 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
Polyethylene glycol (25322-68-3)			
No additional information available			
8.2. Appropriate engineering controls			

Appropriate engineering controls



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8.3. Individual protection measures/Personal protective equipment				
Hand protection:				
In case of repeated or prolonged contact wear gloves				
Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	0,12	
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

9.1. Information on basic physical and chemical properties

5.1. Information on basic physical and chemical properties			
Physical state	Gas		
Colour	Colourless		
Odour	characteristic		
Odour threshold	No data available		
рН	No data available		
Melting point	No data available		
Freezing point	No data available		
Boiling point	No data available		
Flash point	-88.6 °C		
Relative evaporation rate (butylacetate=1)	No data available		
Flammability (solid, gas)	Extremely flammable aerosol.		
Vapour pressure	8300 hPa		
Relative vapour density at 20°C	No data available		
Relative density	No data available		
Density	0.6 g/cm³ (DIN 51757)		
Solubility	No data available		
Partition coefficient n-octanol/water (Log Pow)	No data available		
Auto-ignition temperature	287 °C		
Decomposition temperature	No data available		
Viscosity, kinematic	No data available		
Viscosity, dynamic	No data available		
Explosive limits	Lower explosion limit: 1.6 vol %		
	Upper explosion limit: 11.1 vol %		
Explosive properties	No data available		
Oxidising properties	No data available		
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9.2. Other information

Heat of combustion Gas group > 30 kJ/g NFPA 30B, Aerosol Classification Level: 3 Gases under pressure : Compressed gas

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. 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.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Sparks. Open flame. Direct sunlight. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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)	
propene (115-07-1)		
LC50 Inhalation - Rat	> 688 mg/m ³	
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)	
propene (115-07-1)		
IARC group	3 - Not classifiable	
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)	
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STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	Not applicable
Viscosity, kinematic	No data available
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. Toxicity	
Ecology - general	Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.
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.)
EC50 96h - Algae [1]	14.9 mg/l (Quantitative structure-activity relationship (QSAR); algae)
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))
EC50 96h - Algae [1]	12.1 mg/l (algae; Quantitative structure-activity relationship (QSAR))
Polyethylene glycol (25322-68-3	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

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)		
Persistence and degradability	Readily biodegradable.	
12.3. Bioaccumulative potential		
propene (115-07-1)		
Partition coefficient n-octanol/water (Log Kow)	1.77 (20 °C)	



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propene (115-07-1)		
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		
No additional information available		

12.5. Other adverse effects

Effect on global warming	No known effects from this product.
Other information	Avoid release to 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	Container under pressure. Do not drill or burn even after use.
Additional information	Flammable vapours may accumulate in the container.

SECTION 14: Transport information

IMDG	ΙΑΤΑ	RID
r		
UN 3150	UN 3150	UN 3150
e		
HYDROCARBON GAS REFILLS FOR SMALL DEVICES	Hydrocarbon gas Refills for small devices	HYDROCARBON GAS REFILLS FOR SMALL DEVICES
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
es)		
2.1	2.1	2.1
I	I	
Not applicable	Not applicable	Not applicable
	r UN 3150 e HYDROCARBON GAS REFILLS FOR SMALL DEVICES UN 3150 HYDROCARBON GAS REFILLS FOR SMALL DEVICES, 2.1 es) 2.1	UN 3150 UN 3150 e HYDROCARBON GAS REFILLS FOR SMALL DEVICES Hydrocarbon gas Refills for small devices UN 3150 HYDROCARBON GAS REFILLS FOR SMALL DEVICES, 2.1 UN 3150 Hydrocarbon gas Refills for small devices, 2.1 es) 2.1



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ADR	IMDG	ΙΑΤΑ	RID
14.5. Environmental hazards			
Dangerous for the environment: No	angerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information availab	e		
14.6. Special precautions for use	r		
Overland transport			
Classification code (ADR)	6F		
_imited quantities (ADR)	0		
Excepted quantities (ADR)	E0		
Packing instructions (ADR)	P209		
Mixed packing provisions (ADR)	MP9		
Fransport category (ADR)	2		
Special provisions for carriage - Loadin			
and handling (ADR)	g,		
Special provisions for carriage - Operat	ion (ADR) S2		
Funnel restriction code (ADR)	D		
	D		
Fransport by sea			
Limited quantities (IMDG)	0		
Excepted quantities (IMDG)	EO		
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		
imited quantities (RID)	0		
Excepted quantities (RID)	E0		
Packing instructions (RID)	P209		
Aixed packing provisions (RID)	MP9		
ransport category (RID)	2		
Special provisions for carriage - Loadin	g, unloading CW9		
Ind handling (RID)	070		
Colis express (express parcels) (RID)	CE2		
lazard identification number (RID)	23		
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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Se and 40 CFR Part 372.	Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.			
propene	CAS-No. 115-07-1	25 - 40%		

15.2. International regulations

CANADA

but-1-ene (106-98-9)

Listed on the Canadian DSL (Domestic Substances List)

propene (115-07-1)

Listed on the Canadian DSL (Domestic Substances List)

Propane (74-98-6)

Listed on the Canadian DSL (Domestic Substances List)

Polyethylene glycol (25322-68-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

but-1-ene (106-98-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

propene (115-07-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Propane (74-98-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm



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Component	State or local regulations
but-1-ene(106-98-9)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
propene(115-07-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Propane(74-98-6)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information				
according to Federal Register / Vol. 77,	Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations			
Revision date	07/29/2024			
Data sources	European Chemicals Agency, http://echa.europa.eu/. manufacturer.			
Training advice	Department issuing data specification sheet.			
Other information	NFPA 30B.			

Full text of H-statements		
H220	Extremely flammable gas.	
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 disrupting properties			
EC-No.	European Community number			
EN	European Standard			
ΙΑΤΑ	International Air Transport Association			
IMDG	International Maritime Dangerous Goods			
IOELV	Indicative Occupational Exposure Limit Value			
LC50	Median lethal concentration			
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Abbreviations and acronyms		
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	

NFPA health hazard	0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.
NFPA reactivity	3 - Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under confinement before initiation.
Hazard Rating	
Health	0 Minimal Hazard - No significant risk to health
Flammability	4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)
Physical	3 Serious Hazard - Materials that may form explosive mixtures with water and are capable of detonation or explosive reaction in the presence of a strong initiating source. Materials may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion
Personal protection	A - Safety glasses



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Indication of changes:						
Section	Changed item	Change	Comments			
1	Department issuing data specification sheet:		E-mail address of competent person responsible for the SDS			
9	Physical and chemical properties	Added	NFPA 30B			
16	Other data	Added	NFPA 30B			

SDS US 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.