



MSDS No.: 296
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MATERIAL SAFETY DATA SHEET

Product name: GC12, GC12-HA
Description: Aerosol propellant for use with Hilti GX 100 fastening tool
Supplier: Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121
Emergency # (Chem-Trec.): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 703 527 3887 (Other countries)

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	TLV:	PEL:	STEL:
Dimethyl ether	115-10-6	NE	NE	NE
Propylene	115-07-1	860 mg/m ³	NE	NE
Isobutane	075-28-5	1000 ppm	NE	NE
Ethanol	064-17-5	NE	1900 mg/m ³	1880 mg/m ³ (C)
Propane, liquefied *	074-98-6	1000 ppm	1800 mg/m ³	NE

* Propane mixture remains in the can and is not released.

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. NE = None Established. N/A = Not Applicable.

PHYSICAL DATA

Appearance:	Colorless aerosol.	Odor:	Alcohol odor.
Vapor Density: (air = 1)	Not determined.	Vapor Pressure:	5-20 bar @ 50 C.
Boiling Point:	Not determined.	VOC Content:	Not determined.
Evaporation Rate:	Not determined.	Solubility in Water:	Negligible.
Specific Gravity:	Not determined.	pH:	Not applicable.

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	< 0° F closed cup	Flammable Limits:	1 - 32%
Extinguishing Media:	Carbon Dioxide, Dry Chemical, Foam, Water		
Special Fire Fighting Procedures:	Extremely flammable aerosols. Cool with water spray to prevent ignition.		
Unusual Fire and Explosion Hazards:	Extremely flammable. Contents under pressure. Containers exposed to fire can burst or be propelled through the air.		

REACTIVITY DATA

Stability:	Stable.	Hazardous Polymerization:	Will not occur.
Incompatibility:	Oxidizing materials.		
Decomposition Products:	Thermal decomposition can yield CO, SO ₂ and NO _x .		
Conditions to Avoid:	Potential ignition sources such as extremely hot surfaces, flames, sparks, static discharges, etc.		

HEALTH HAZARD DATA

Known Hazards:	Irritation. Direct contact with contents can cause severe irritation or frostbite.
Signs and Symptoms of Exposure:	Contact: No effects expected from normal use. Direct contact with liquefied gas (e.g. from a leaking can) can cause severe irritation and possibly burns (i.e. frostbite). Inhalation: No ill effects expected from normal use. Contains asphyxiant gases. Direct inhalation of gases can cause narcotic effects. Ingestion: Not a likely route of exposure.
Routes of Exposure:	Dermal. Inhalation.
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.
Medical Conditions Aggravated by Exposure:	Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	For contact with liquefied gas, flush immediately with plenty of water and transport to a medical facility.
Skin:	If contact with liquefied (cold) gases occurs, hold under warm running water. Do not use hot water. Do not rub the skin. Seek medical attention.
Inhalation:	Move victim to fresh air. Call a physician if symptoms persist.
Ingestion:	Not a likely route of exposure.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury / exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	As a minimum, safety glasses should be worn while connecting the can to the tool and while using fastening tools.
Skin Protection:	Cloth or leather gloves are recommended.
Respiratory Protection:	None normally required.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	Store in a cool dry area preferably between 41 and 77° F. Do not store in direct sunlight. Do not store with DX cartridges (Boosters). Extremely flammable gas under pressure. Keep away from excessive heat, sparks, flames and any other potential ignition sources. Do not allow liquefied gases to come in contact with the skin. Use with adequate ventilation. For industrial use only. Keep out of reach of children. Follow label / use instructions.
Spill Procedures:	Immediately remove any ignition sources. Wear appropriate personal protective equipment. Provide adequate ventilation to disperse gases.

REGULATORY INFORMATION

Hazard Communication:	This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
HMIS Codes:	Health 1, Flammability 4, Reactivity 0, PPE B
DOT- Ground Shipping Name:	Limited Quantity - LQ
IATA (air) Shipping Name:	Devices, small, hydrocarbon gas powered <i>with release device</i> , Class 2.1, UN3150
TSCA Inventory Status:	Chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product does not contain any ingredients which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
EPA Waste Code(s):	D001
Waste Disposal Methods:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

CONTACTS

Customer Service:	1 800 879 8000
Technical Service:	1 800 879 8000
Health / Safety:	1 800 879 6000 Jerry Metcalf (x1003704)
Emergency # (Chem-Trec):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 703 527 3887 (Other countries)

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