

Version number 23

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### **1 Identification**

- · Product identifier
- · Trade name: Hilti GC22
- $\cdot$  Relevant identified uses of the substance or mixture and uses advised against Gas can for use exclusively with the Hilti GX 120 tool.
- · Application of the substance / the mixture Propellant for direct fastening tools.
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Hilti, Inc.

5400 South 122nd East Ave. US-Tulsa, OK 74146 Phone: (800) 879-8000 Fax: (800) 879-7000 Español: (800) 879-5000

- **Information department:** df-hse@hilti.com see section 16
- Emergency telephone number: Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada) Tel.: 703 527 3887 (Other countries)

#### 2 Hazard(s) identification

## $\cdot$ Classification of the substance or mixture

Flam. Gas 1 H220 Extremely flammable gas.

Press. Gas H280 Contains gas under pressure; may explode if heated.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



#### · Signal word Danger

- · Hazard statements
- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- · Precautionary statements
- P102 Keep out of reach of children.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- · Classification system
- · NFPA ratings (scale 0-4)



 $\cdot$  Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

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## **3** Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Description:

Mixture of the substances listed below with nonhazardous additions.

| · Dangerou | · Dangerous components: |           |  |
|------------|-------------------------|-----------|--|
| 75-28-5    | isobutane               | 25-<50%   |  |
| 115-07-1   | propene                 | 25-<50%   |  |
| 74-98-6    | propane liquefied       | 10-<12.5% |  |

 $\cdot$  Additional information

Gas can with 2 chambers:

1. Propane (pressure gas) - remains in the can after use

2. Isobutane / dimethylether / ethanol / propylene / mineral oil (active agent), Buta-1,3-diene content less than 0,1% For the wording of the listed risk phrases refer to section 16.

## **4 First-aid measures**

- · Description of first aid measures
- · General information Immediately remove any clothing soiled by the product.
- · After inhalation
- Take affected persons into fresh air and keep quiet.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing Seek immediate medical advice.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### **5** Fire-fighting measures

#### · Extinguishing media

- · Suitable extinguishing agents
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents Water with full jet.
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Can form explosive gas-air mixtures.
- · Advice for firefighters
- · Protective equipment:
- Wear self-contained respiratory protective device.
- EN 12941 / EN 12942

#### 6 Accidental release measures

| · Personal precautions, protective equipment and emergency procedures                |                    |
|--|--------------------|
| Remove persons from danger area.   |                    |
| Ensure adequate ventilation  |                    |
| Keep away from ignition sources  |                    |
| Environmental precautions:   |                    |
| Do not allow to enter sewers/ surface or ground water.                               |                    |
| Inform respective authorities in case of seepage into water course or sewage system. |                    |
| Methods and material for containment and cleaning up:                                |                    |
| Allow to evaporate.  |                    |
| Ensure adequate ventilation.   |                    |
| Do not flush with water or aqueous cleansing agents                                  |                    |
| Dispose contaminated material as waste according to item 13.                         |                    |
| · Reference to other sections  |                    |
| See Section 7 for information on safe handling                                       |                    |
| See Section 8 for information on personal protection equipment.                      |                    |
|  | (Contd. on page 3) |
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See Section 13 for disposal information.

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| 7 Handling ar  | d storage  |
|--|--|
| ·Handling  |  |
|  | or safe handling   |
| Keep away fro  | m heat and direct sunlight.  |
|  | entilation/exhaustion at the workplace.  |
| Information a  | bout protection against explosions and fires:  |
|  | a naked flames or any incandecent material sources away - Do not smoke.  |
|  | electrostatic charges.   |
|  | r pressure. Do not store in direct sunlight. Do not store above 100°F. Do not open or burn even after use.   |
| · Conditions fo  | r safe storage, including any incompatibilities  |
| · Storage  |  |
| Requirement  | s to be met by storerooms and receptacles:   |
| Keep in a cool   | , dry and dark place; 41 °F / 5 °C to $\overline{77}$ °F / 25 °C.  |
|  | al regulations on storing packagings with pressurized containers.<br>bout storage in one common storage facility:  |
|  | ith DX powder cartridges.  |
| Store away fro   |  |
|  | mation about storage conditions:   |
|  | ort in the passenger compartment or cabin of a motor vehicle.  |
| Protect from h   | eat and direct sunlight.   |
| · Storage class  |  |
| <ul> <li>Specific end ι</li> </ul>   | <b>se(s)</b> Gas can for use exclusively with the Hilti GX 120 tool.   |
| · Control para   | formation about design of technical systems: No further data; see item 7.<br>neters  |
| <ul> <li>Control para</li> <li>Components</li> </ul>   | neters<br>with limit values that require monitoring at the workplace:  |
| Control parate     Components     No technical r   | neters<br>with limit values that require monitoring at the workplace:<br>neasures are necessary during normal use. In case of leakage of substances contained within Hilit GC22, th  |
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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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## Safety Data Sheet acc. to ISO 11014

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Reviewed on 05/18/2015

## Trade name: Hilti GC22

(Contd. of page 3) Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation EN 374 / EN 388

- · Material of gloves
- Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.7 \text{ mm}$ 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- · Penetration time of glove material
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection:



Safety glasses

EN 166 / EN 170 · Body protection:



When using setting tools, sufficient ear protection must be worn.

## 9 Physical and chemical properties

| <ul> <li>Information on basic physical and c</li> <li>General Information</li> </ul>                                      | hemical properties   |
|---|--|
| <ul> <li>Appearance:<br/>Form:<br/>Color:</li> <li>Odor:</li> <li>Odour threshold:</li> </ul>                             | Gaseous<br>Colorless<br>Sweetish<br>Not determined.  |
| · pH-value:   | Not applicable   |
| <ul> <li>Change in condition<br/>Melting point/Melting range:<br/>Boiling point/Boiling range:</li> </ul>                 | Not determined.<br>Not applicable  |
| · Flash point:  | Not applicable   |
| · Flammability (solid, gaseous)   | Not applicable   |
| · Ignition temperature:   | >460 °C (>860 °F)  |
| · Decomposition temperature:  | Not determined.  |
| · Auto igniting:  | Product is not selfigniting.   |
| · Danger of explosion:  | Product is not explosive. However, formation of explosive air/vapor mixtures are possible.                 |
| · Explosion limits:<br>Lower:<br>Upper:   | 1.7 Vol %<br>11.1 Vol %  |
| · Vapor pressure at 20 °C (68 °F):  | 8300 hPa (6226 mm Hg)  |
| <ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul> | 0.58 g/cm <sup>3</sup> (4.84 lbs/gal) (DIN 51757)<br>Not determined.<br>Not determined.<br>Not applicable. |
| <ul> <li>Solubility in / Miscibility with<br/>Water:</li> </ul>   | Not miscible or difficult to mix   |
| · Partition coefficient (n-octanol/wate   | er): Not determined.   |
| · Viscosity:<br>dynamic:<br>kinematic:  | Not determined.<br>Not determined.   |
|   | (Contd. on page 5)   |



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 $\cdot$  Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- $\cdot$  Possibility of hazardous reactions
- Danger of bursting
- Reacts with oxidizing agents
- Forms explosive gas mixture with air
- $\cdot$  Conditions to avoid No further relevant information available.
- $\cdot$  Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

## **11** Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- $\cdot$  Sensitization: No sensitizing effects known.
- · Additional toxicological information:

Do not inhale vapours, aerosol or spray. The inhalation of large quantities of the gasses can lead to narcotic effects. Long periods of exposure or repeated exposure can present a health hazard.

#### · Carcinogenic categories

### · NTP (National Toxicology Program)

None of the ingredients is listed.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects: Not determined
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Generally not hazardous for water.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### · Waste treatment methods

- · Recommendation
- For disposal, local regulations issued by the authorities must be observed.
- Use the entire contents of the can. The pressure gas (propane / butane) remains in the can.
- Hand over to hazardous waste disposers.
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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| · European waste catalogue: |   |  |
|-----------------------------|---|--|
| 14 06 03*                   | other solvents and solvent mixtures   |  |
| 16 05 04*                   | gases in pressure containers (including halons) containing dangerous substances |  |
| 15 01 04                    | metallic packaging  |  |

Uncleaned packagings:
Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

| UN-Number  |   |
|--|---|
| DOT, ADR, IMDG, IATA   | UN3150  |
| UN proper shipping name  |   |
| DOT  | Hydrocarbon gas refills for small devices                   |
| ADR  | UN3150 Hydrocarbon gas refills for small devices            |
| IMDG   | HYDROCARBON GAS REFILLS FOR SMALL DEVICES                   |
| ΙΑΤΑ   | DEVICES, SMALL, HYDROCARBON GAS POWERED WITH RELEASE DEVICE |
| Transport hazard class(es)   |   |
| DOT  |   |
|  |   |
|  |   |
| 2  |   |
| Class  | 2 Gases   |
| Label  | 2.0ases<br>2.1  |
| ADR  |   |
| ADK  |   |
|  |   |
|  |   |
| 2  |   |
| Class  | 2 6F Gases  |
| Label  | 2.1   |
| IMDG, IATA   |   |
|  |   |
|  |   |
|  |   |
| 2  |   |
| Class  | 2 Gases   |
| Label  | 2.1   |
| Packing group  |   |
| ADR, IMDG, IATA  | Void  |
| Environmental hazards:   | N-  |
| Marine pollutant:  | No  |
| Special precautions for user   | Warning: Gases  |
| Danger code (Kemler):<br>EMS Number:                                   | 23<br>F-D,S-U   |
|  |   |
| Transport in bulk according to Annex I<br>MARPOL73/78 and the IBC Code | II of<br>Not applicable.                                    |
| Transport/Additional information:                                      |   |
| DOT  | Limited Quantity - LQ                                       |



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· UN "Model Regulation":

UN3150, UN3150 Hydrocarbon gas refills for small devices, 2.1

## **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture

· Section 355 (Extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

115-07-1 propene

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

115-07-1 propene

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: not required.

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Hilti Entwicklungsgesellschaft mbH Hiltistrasse 6 D-86916 Kaufering Tel.: +49 8191 906310 Fax: +49 8191 90176310 df-hse@hilti.com · Contact: Mechthild Krauter · Date of preparation / last revision 05/18/2015 / 22 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) Flam. Gas 1: Flammable gases, Hazard Category 1 Press. Gas: Gases under pressure: Compressed gas

• \* Data compared to the previous version altered.

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