1 Identification

· Product identifier

· Trade name: Hilti Spray

· Container size:
  Item-no 308976 66 ml / 2.2 fl.oz
  Item-no 314648 300 ml / 10.1 fl.oz

· Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.

· Application of the substance / the mixture: Lubricating oil

· 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

· Classification of the substance or mixture
  The product is not classified according to the Globally Harmonized System (GHS).

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC: not applicable

· Information concerning particular hazards for human and environment:
  The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:
  The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

· Label elements

· GHS label elements: Void

· Hazard pictograms: Void

· Signal word: Void

· Hazard statements: Void

· Classification system

· NFPA ratings (scale 0-4)
  Health = 0
  Fire = 1
  Reactivity = 0

· Other hazards

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Combination of readily biodegradable esters made from glycerine and corrosion inhibitors.

· Dangerous components: Void

· Additional information: For the wording of the listed risk phrases refer to section 16.
4 First-aid measures

· Description of first aid measures
  · General information No special measures required.
  · After inhalation Take affected persons into fresh air and keep quiet.
  · 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 Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

· 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.
    Carbon monoxide (CO)
    Nitrogen oxides (NOx)
    Carbondioxide (CO2)
    In certain fire conditions, traces of other toxic gases cannot be excluded.

· Advice for firefighters
  · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Particular danger of slipping on leaked/spilled product.

· Environmental precautions: Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.

· Reference to other sections
  No dangerous substances are released.
  See Section 7 for information on safe handling
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

· Handling
  · Precautions for safe handling
    The usual precautionary measures for handling chemicals should be followed.
    Avoid the formation of oil haze.

· Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

· Conditions for safe storage, including any incompatibilities

· Storage
  · Requirements to be met by storerooms and receptacles:
    Keep in a cool, dry and dark place; 41 °F / 5 °C to 77 °F / 25 °C.

· Information about storage in one common storage facility: Store away from foodstuffs.

· Further information about storage conditions: None.

· Specific end use(s) No further relevant information available.
8 Exposure controls/personal protection

· Control parameters
· Components with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls
· Personal protective equipment
· General protective and hygienic measures
  The usual precautionary measures for handling chemicals should be followed.
  Do not eat, drink, smoke or sniff while working.
  Do not inhale gases / fumes / aerosols.
  Wash hands before breaks and at the end of work.
· Breathing equipment:
  Not required.
  Avoid breathing mist.
· Protection of hands:

Protective gloves.

Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.

· Material of gloves
  Butyl rubber, BR
  Natural rubber, NR
· 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

9 Physical and chemical properties

· Information on basic physical and chemical properties
· General Information
· Appearance:
  Form: Fluid
  Color: colourless-yellowish
· Odor: Mineral-oil-like
· Odour threshold: Not determined.
· pH-value: Slightly acidic

· Change in condition
  Melting point/Melting range: Not determined.
  Boiling point/Boiling range: undetermined
· Flash point: Not applicable
· Flammability (solid, gaseous) Not determined
· Ignition temperature:
  Decomposition temperature: > 200 °C (> 392 °F)
· Auto igniting: Product is not selfigniting.
· Danger of explosion: Product does not present an explosion hazard.
· Explosion limits:
  Lower: Not determined.
  Upper: Not determined.
10 Stability and reactivity

- Reactivity
- Chemical stability
  - Thermal decomposition / conditions to be avoided:
    - Temperatures > 40 °C
      - No decomposition if used and stored according to specifications.
  - Possibility of hazardous reactions: Reacts with acids, alkalis and oxidizing agents
  - Conditions to avoid: No further relevant information available.
  - Incompatible materials: strong oxidizing agents
  - Hazardous decomposition products: none, if stored and handled correctly.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification: LD50(oral) > 2000 mg/kg (rat)
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    - The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
    - 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: Easily biodegradable
  - Behavior in environmental systems:
    - Bioaccumulative potential: No further relevant information available.
    - Mobility in soil: No further relevant information available.
  - Additional ecological information:
    - According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:
      - None
  - General notes:
    - The product does not contain organically bounded halogens (AOX-free).
    - Do not allow product to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
13 Disposal considerations

- Waste treatment methods
  - Recommendation
    Delivery of waste oil to officially authorized collectors only.
    Hand over to hazardous waste disposers.

- European waste catalogue:
  - 13 02 07* readily biodegradable engine, gear and lubricating oils

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, ADR, ADN, IMDG, IATA: Void

- UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA: Void

- Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA: Void

- Packing group
  - DOT, ADR, IMDG, IATA: Void

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Not applicable.

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.

- UN "Model Regulation": -

15 Regulatory information

- 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):
    None of the ingredients are listed.
  - 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)
    None of the ingredients is listed.
  - MAK (German Maximum Workplace Concentration)
    None of the ingredients is listed.

(Contd. on page 6)
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  
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· **Contact:** Mechthild Krauter

· **Date of preparation / last revision** 05/18/2015 / -

· **Abbreviations and acronyms:**
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
  ICAO: International Civil Aviation Organisation  
  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)  
  LC50: Lethal concentration, 50 percent  
  LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered.