



Material Safety Data Sheet

acc. to ISO 11014

Printing date 02/09/2012

Version number 2

Reviewed on 02/09/2012

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Hilti Two-stroke oil DSH
- **Container size:** 1 L / 1.057 qt / 33.8 fl.oz.
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Oil for air-cooled two-stroke engines.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Hilti (Canada) Corp.
2360 Meadowpine Boulevard
Mississauga, Ontario L5N 6S2
Tel +1 905 813 920
Fax +1 905 813 9009
Customer Service:
Tel +1 905 1-800-363-4458 toll free
Fax 1-800-363-4459 toll free
- **Information department:**
anchor.hse@hilti.com
see section 16
- **Emergency telephone number:**
Hilti (Canada) Corp.
Tel +1 905 813 920
Fax +1 905 813 9009

2 Hazards identification

- **Classification of the substance or mixture** The product is not classified according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
- **Hazard description:**
- **WHMIS classification**
B3 - Combustible liquid
D2B - Toxic material causing other toxic effects
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**

Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha; benzene <0,1 %	10-20%
	Xn R65 H304	

- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **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** 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.

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5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
Foam
CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents** Water.
- **Special hazards arising from the substance or mixture**
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Sulphur dioxide (SO₂)
- **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.
Product forms slippery surface when combined with water.
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources
- **Environmental precautions:**
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
- **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**
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.
keep containers securely closed and dry, store at +5 - +30°F
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from flammable substances.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Storage class**
As per VCI (1991) storage classification concept.
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- **Specific end use(s)** Oil for air-cooled two-stroke engines.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
 - **Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
- | |
|---|
| 64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha; benzene <0,1 % |
| TLV Short-term value: 525 mg/m ³ |

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Immediately remove all soiled and contaminated clothing
Do not inhale gases / fumes / aerosols.

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- Do not carry product impregnated cleaning cloths in trouser pockets.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Do not eat, drink, smoke or sniff while working.
- **Breathing equipment:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device only when aerosol or mist is formed.
- **Protection of hands:** Oil resistant gloves
- **Material of gloves:** Nitrile rubber, NBR
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

9 Physical and chemical properties

 · **Information on basic physical and chemical properties**

 · **General Information**

 · **Appearance:**

Form:	Fluid
Color:	Red
Odor:	Characteristic
Odour threshold:	Not determined

 · **pH-value:** Not applicable

 · **Change in condition**

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	undetermined

 · **Flash point:** 67°C (153 °F) (DIN 2592)

 · **Flammability (solid, gaseous)** Not determined

 · **Ignition temperature:** Not determined

 · **Decomposition temperature:** Not determined

 · **Auto igniting:** Product is not selfigniting.

 · **Danger of explosion:** Product does not present an explosion hazard.

 · **Explosion limits:**

Lower:	Not determined
Upper:	Not determined

 · **Vapor pressure:** Not determined

 · **Density at 20°C (68 °F):** 0.867 g/cm³ (ASTM 4052)

 · **Relative density** Not determined

 · **Vapour density** Not determined

 · **Evaporation rate** Not determined

 · **Solubility in / Miscibility with**

Water: Insoluble

 · **Segregation coefficient (n-octanol/water):** Not determined

 · **Viscosity:**

dynamic:	Not determined
kinematic at 40°C (104 °F):	50 mm ² /s (DIN 51562-1)

 · **Solvent content:**

Organic solvents:	10-20 %
Water:	0 %

Solids content: 0 %

 · **Other information** No further relevant information available.

10 Stability and reactivity

 · **Reactivity**

 · **Chemical stability**

 · **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

 · **Possibility of hazardous reactions** Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized

 · **Conditions to avoid** No further relevant information available.

 · **Incompatible materials:** No further relevant information available.

 · **Hazardous decomposition products:**

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Trade name: Hilti Two-stroke oil DSH

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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

 · **LD/LC50 values that are relevant for classification:**
64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

Oral | LD50 | > 2000 mg/kg (rango)

- **Primary irritant effect:**
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

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.
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Water hazard class 2 (German Regulation) (Self-assessment): 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**
Delivery of waste oil to officially authorized collectors only.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
When storing used mineral oil products, ensure that the categories for waste oil and mixing instructions are observed.
Hand over to hazardous waste disposers.

 · **European waste catalogue:**

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 02 00	waste engine, gear and lubricating oils
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

· UN-Number	-
· UN proper shipping name	-
· Transport hazard class(es)	-
· Packing group	-
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· TDG	
· Remarks:	Not classified as dangerous goods in terms of the ADR
· IMDG	
· Remarks:	Not dangerous according to the above specifications.
· HS-Code:	2710 19 99: Other lubricating oils and other oils

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
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· Section 355 (Extremely hazardous substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):
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9016-87-9 diphenylmethanediisocyanate, isomeres and homologues
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· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Carcinogenicity categories

· EPA (Environmental Protection Agency)
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9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	CBD
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· IARC (International Agency for Research on Cancer)

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	3
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· NTP (National Toxicology Program)
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None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	4
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· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
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None of the ingredients is listed.

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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P260 Do not breathe the mist/vapours/spray.
--

P262 Do not get in eyes, on skin, or on clothing.
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P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

· Chemical safety assessment: not required.
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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 MSDS:

Hilti Entwicklungsgesellschaft mbH

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· Contact: Mechthild Krauter

· Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists
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WHMIS: Workplace Hazardous Materials Information System (Canada)
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LC50: Lethal concentration, 50 percent
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LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered.
