

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

# SECTION 1: Identification

#### 1.1. Product identifier Product form

Product name Product code Mixture Lubricant for Pneumatic Fastening Tool BU Direct Fastening

## 1.2. Recommended use and restrictions on use

Recommended use

Lubricants, Greases and Release Products

#### 1.3. Supplier

Hilti (Canada) Corp. 2360 Meadowpine Boulevard L5N 6S2 Mississauga, Ontario - Canada T +1905 8139200 1-800-363-4458 toll free - F +1 905 813 9009

#### 1.4. Emergency telephone number

Emergency number

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

# **SECTION 2: Hazard identification**

#### 2.1. Classification of the substance or mixture

Classification (GHS CA) Not classified

## 2.2. GHS Label elements, including precautionary statements

#### GHS CA labelling

No labelling applicable

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS CA)

No data available

# SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Lubricating oils (petroleum), base oils, paraffinic		(CAS-No.) 93572-43-1	97 – 100	Not classified
Dialkyl(C1-C14)dithiophosphoric acid, zinc salt		(CAS-No.) 68649-42-3	0 – 1	Skin Irrit. 2, H315 Eye Dam. 1, H318



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Phosphoric acid ester amine salt		(CAS-No.) 91745-46-9	< 0.5	Not classified
2,6-di-tert-butyl-p-cresol	1,3-di-tert-butyl-2-hydroxy-5- methylbenzene / 1,3-di-tertiary- butyl-2-hydroxy-5-methylbenzene / 2,6-bis(1,1-dimethylethyl)-4- methylphenol / 2,6-di-tert-butyl-1- hydroxy-4-methylbenzene / 2,6-di- tert-butyl-4-cresol / 2,6-di-tert-butyl- cresol / 2,6-di-tert-butyl-p- cresol / 2,6-di-tert-butyl-p- cresol / 2,6-di-tertiary-butyl- 1-hydroxy-4-methylbenzene / 2,6-di- tertiary-butyl-4-cresol / 2,6-di- tertiary-butyl-4-cresol / 2,6-di- tertiary-butyl-1-para-cresol / 2,6-di- tertiary-butyl-1-para-cresol / 2,6-di- tertiary-butyl-1-para-cresol / 2,6-di- tertiary-butyl-1-para-cresol / 2,6-di- tertiary-butyl-1-para-cresol / 2,6-di- tertiary-butyl-1-4- hydroxytoluene / 4-hydroxy-3,5-di- tert-butyltoluene / 4-methyl-2,6- di-tert-butylphenol / 4-methyl-2,6- di-tert-butylphenol / 4-methyl-2,6- tertiary-butylphenol / 4-methyl-2,6- di-tertiary-butylphenol / 4- methyl dhydroxytoluene / BHT butylated hydroxytoluene / CAO 1 / CAO 3 / catalin CAO-1 DBPC / catalin CAO-3 / chemanx 11 / dalpac / DBMP / DBPC / DBPC, technical grade / deenax / dibunol / dibutylated hydroxytoluene / di-	(CAS-No.) 128-37-0	0-0.2	Acute Tox. 4 (Oral), H302

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 after inhalation

Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

First-aid measures after eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects

Potential adverse human health effects and symptoms

Not expected to present a significant hazard under anticipated conditions of normal use. Based on available data, the classification criteria are not met.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

# SECTION 5: Fire-fighting measures 5.1. Suitable extinguishing media Suitable extinguishing media Foam. Dry powder. Carbon dioxide. Sand. 5.2. Unsuitable extinguishing media Unsuitable extinguishing media Do not use extinguishing media containing water. Do not use a heavy water stream.

#### 5.3. Specific hazards arising from the hazardous product

5.4. Special protective	Special protective equipment and precautions for fire-fighters		
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.		
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.		

#### **SECTION 6: Accidental release measures**

6.1.	Personal precautions, protectiv	ve equipment and emergency procedures		
No additional information available				
6.2.	Methods and materials for cont	tainment and cleaning up		
Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible spillage. Store away from other materials.		Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.		
6.3.	Reference to other sections			

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

 SECTION 7: Handling and storage

 7.1. Precautions for safe handling

 Precautions for safe handling
 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

 Hygiene measures
 Do not eat, drink or smoke when using this product. Always wash hands after handling the product.



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Incompatible products

Incompatible materials

Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources. Keep container closed when not in use. Strong bases. Strong acids. Sources of ignition. Direct sunlight.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

No additional information available

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### **Respiratory protection:**

Wear appropriate mask

#### Other information:

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	No data available
Colour	Yellow
Odour	characteristic
Odour threshold	No data available
рН	No data available
Relative evaporation rate (butylacetate=1)	No data available
Relative evaporation rate (ether=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	> 300 °C
Flash point	> 190 °C
Auto-ignition temperature	No data available
Decomposition temperature	> 250 °C
Flammability (solid, gas)	Non flammable.
Vapour pressure	< 1 hPa
Vapour pressure at 50 °C	No data available



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

ita available
g/cm³
ta available
ta available
m²/s (40 °C)
ita available

# 9.2. Other information

No additional information available

<b>SECTION 10: Stability and reactivity</b>	
Reactivity	No additional information available
Chemical stability	Not established.
Possibility of hazardous reactions	Not established.
Conditions to avoid	Direct sunlight. Extremely high or low temperatures.
Incompatible materials	Strong acids. Strong bases.
Hazardous decomposition products	fume. Carbon monoxide. Carbon dioxide.
Hardening time:	No additional information available

# **SECTION 11: Toxicological information**

11.1.	Information on toxico	ological effects
Acute t	oxicity (oral)	Not classified
Acute t	oxicity (dermal)	Not classified
Acute t	oxicity (inhalation)	Not classified

2,6-di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	> 6000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE CA (oral)	890 mg/kg bodyweight
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
	Not classified
STOT-repeated exposure	
Aspiration hazard	Not classified
Lubricant for Pneumatic Fastening To	pol
Viscosity, kinematic	22 mm²/s (40 °C)



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.
Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.

# **SECTION 12: Ecological information**

12.1.	Toxicity

Hazardous to the aquatic environment, short- term (acute)	Not classified
Hazardous to the aquatic environment, long- term (chronic)	Not classified

2,6-di-tert-butyl-p-cresol (128-37-0)		
LC50 - Fish [1]	0.199 mg/l (ECOSAR v1.00, 96 h, Pisces, QSAR, Lethal)	
EC50 - Crustacea [1]	0.48 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)	
EC50 72h - Algae [1]	> 0.24 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)	
BCF - Fish [1]	230 – 2500 (56 days; Cyprinus carpio)	
Partition coefficient n-octanol/water (Log Pow)	4.17 (Experimental value, 37 °C)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.362 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	
Threshold limit - Algae [1]	> 0.4 mg/l (72 h; Scenedesmus subspicatus; GLP)	
Threshold limit - Algae [2]	0.363 mg/l (Algae; Chronic)	

#### 12.2. Persistence and degradability

Lubricant for Pneumatic Fastening Tool		
Persistence and degradability	Not established.	
2,6-di-tert-butyl-p-cresol (128-37-0)		
Persistence and degradability	Not readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.51 g O□/g substance	
Chemical oxygen demand (COD)	2.27 g O□/g substance	
ThOD	2.977 g O⊡/g substance	
BOD (% of ThOD)	0.17 % ThOD	

#### 12.3. Bioaccumulative potential

Lubricant for Pneumatic Fastening Tool		
Bioaccumulative potential	Not established.	
2,6-di-tert-butyl-p-cresol (128-37-0)		
Bioaccumulative potential	Potential for bioaccumulation ( $4 \le Log Kow \le 5$ ).	
BCF - Fish [1]	230 – 2500 (56 days; Cyprinus carpio)	
Partition coefficient n-octanol/water (Log Pow)	4.17 (Experimental value, 37 °C)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.362 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	

# 12.4. Mobility in soil

2,6-di-tert-butyl-p-cresol (128-37-0)		
Surface tension	Not applicable (water solubility < 1 mg/l)	
Ecology - soil	Low potential for mobility in soil. May be harmful to plant growth, blooming and fruit formation.	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.362 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	
Partition coefficient n-octanol/water (Log Pow)	4.17 (Experimental value, 37 °C)	



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

#### 12.5. Other adverse effects

Ozone Other information Not classified Avoid release to the environment.

# SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations Ecology - waste materials Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	ΙΑΤΑ	RID
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping n	ame		
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard clas	s(es)		
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
	Not applicable	Not applicable	Not applicable
Not applicable			•
Not applicable 14.5. Environmental hazard	ls		

#### 14.6. Special precautions for user

Overland transport Not applicable

Transport by sea

Not applicable

Air transport Not applicable

Rail transport Not applicable

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

1	15.1. National regulations		
Ĩ	2,6-di-tert-butyl-p-cresol (128-37-0)		
	Listed on the Canadian DSL (Domestic Substances List)		
[	Dialkyl(C1-C14)dithiophosphoric acid, zinc salt (68649-42-3)		
	Listed on the Canadian DSL (Domestic Substances List)		

# **SECTION 16: Other information**

Other in	formation	None.
Full te:	xt of H-statement	S:
	H302	Harmful if swallowed.
-	H315	Causes skin irritation.
-	H318	Causes serious eye damage.

#### SDS\_CA\_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.