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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 22.07.2011 / 0007  
Replaces revision of / Version: 03.05.2011 / 0006  
Valid from: 22.07.2011  
PDF print date: 22.07.2011  
VOLLS.HYP.GETR.OEL 75W140 1L Art.: 4421

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**VOLLS.HYP.GETR.OEL 75W140 1L**  
**Art.: 4421**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### Relevant identified uses of the substance or mixture:

Synthetic oil  
Gear lubricant

##### Uses advised against:

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr  
Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

#### 1.4 Emergency telephone

##### Advisory office in case of poisoning:

##### Telephone number of the company in case of emergencies:

Tel.: (+49) 0731-1420-0

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### 2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

##### 2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments).

The mixture is not classified as dangerous in the terms of the directive 1999/45/EC.

#### 2.2 Label elements

##### 2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Not determined

##### 2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Symbols: Not applicable

Indications of danger: ---

R-phrases:

S-phrases:

Additions:

Contains

Polysulfides, di-tert-Bu

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

May produce an allergic reaction.

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Safety data sheet available for professional user on request.

## 2.3 Other hazards

The mixture contains no vPvB substance (vPvB = very persistent, very bioaccumulative).  
 The mixture contains no PBT substance (PBT = persistent, bioaccumulative, toxic).

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

n.a.

### 3.2 Mixture

Polysulfides, di-tert-Bu	
Registration number (ECHA)	-
Index	---
EINECS, ELINCS	273-103-3
CAS	CAS 68937-96-2
content %	1-5
Symbol	---
R-phrases	43-53
Classification categories / Indications of danger	Dangerous for the environment, Sensitizing
Hazard class/Hazard category	<b>Hazard statement</b>
Skin Sens./1	H317
Aquatic Chronic/4	H413

Alkyl amine salt of alkyl phosphoric acid	
Registration number (ECHA)	-
Index	---
EINECS, ELINCS	-
CAS	CAS n.v.
content %	1-5
Symbol	---
R-phrases	53
Classification categories / Indications of danger	Dangerous for the environment
Hazard class/Hazard category	<b>Hazard statement</b>
Aquatic Chronic/4	H413

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	
Registration number (ECHA)	01-2119493620-38-XXXX
Index	---
EINECS, ELINCS	931-384-6
CAS	CAS ---
content %	1-5
Symbol	Xi/Xn/N
R-phrases	22-41-43-51-53
Classification categories / Indications of danger	Dangerous for the environment, Harmful, Irritant, Sensitizing
Hazard class/Hazard category	<b>Hazard statement</b>
Flam. Liq./3	H226
Acute Tox./4	H302
Skin Sens./1	H317
Eye Dam./1	H318
Aquatic Chronic/2	H411

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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### **Inhalation**

Remove person from danger area.  
Supply person with fresh air and consult doctor according to symptoms.

### **Skin contact**

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

### **Eye contact**

Remove contact lenses.  
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### **Ingestion**

Rinse the mouth thoroughly with water.  
Do not induce vomiting. Consult doctor immediately.  
Never pour anything into the mouth of an unconscious person!

### **4.2 Most important symptoms and effects, both acute and delayed**

Where relevant delayed occurring symptoms and effects will be found in section 11. or at the exposure routes under section 4.1.

With long-term contact:

Drying of the skin.  
Dermatitis (skin inflammation)  
On vapour formation:  
Irritation of the respiratory tract  
Irritant to mucosa of the nose and throat  
Sensitive individuals:  
Allergic reaction possible.

### **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

CO<sub>2</sub>  
Foam  
Dry extinguisher  
Cool container at risk with water.

#### **Unsuitable extinguishing media**

High volume water jet

### **5.2 Special hazards arising from the substance or mixture**

In case of fire the following can develop:

Oxides of carbon  
Oxides of phosphorus  
Oxides of sulphur  
Oxides of nitrogen  
Toxic pyrolysis products.

### **5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
Protective respirator with independent air supply.  
According to size of fire  
Full protection, if necessary  
Dispose of contaminated extinction water according to official regulations.

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

### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure sufficient supply of air.  
Avoid contact with eyes or skin.  
If applicable, caution - risk of slipping

### **6.2 Environmental precautions**

If leakage occurs, dam up.

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Prevent from entering drainage system.  
 Prevent surface and ground-water infiltration, as well as ground penetration.  
 If accidental entry into drainage system occurs, inform responsible authorities.

### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.  
 Fill the absorbed material into lockable containers.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

Ensure good ventilation.  
 Avoid contact with eyes.  
 Avoid long lasting or intensive contact with skin.  
 Do not carry cleaning cloths soaked in product in trouser pockets.  
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
 Observe directions on label and instructions for use.  
 General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Not to be stored in gangways or stair wells.  
 Store product closed and only in original packing.  
 Store in a well ventilated place.  
 Keep protected from direct sunlight and temperatures over 50°C.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Chemical Name	Oil mist, mineral	Content %:
WEL-TWA: 5 mg/m3 (ACGIH)	WEL-STEL: 10 mg/m3 (ACGIH)	---
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

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Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN 374).  
 Recommended  
 Protective nitrile gloves (EN 374)  
 Protective hand cream recommended.

Skin protection - Other:  
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:  
 Normally not necessary.  
 With oil mist formation:  
 Filter A2 P2 (EN 14387), code colour brown, white  
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:  
 If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.  
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
 Selection of materials derived from glove manufacturer's indications.  
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Amber
Odour:	Mild
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	<-40 °C
Initial boiling point and boiling range:	Not determined
Flash point:	136 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	136 °C (Pensky-Martens, closed cup)
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,87 g/ml (15,6°C)
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	185 cSt (40°C)
Viscosity:	25,3 cSt (100°C)
Explosive properties:	Product is not explosive.
Oxidising properties:	Not determined

### 9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined

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Conductivity: Not determined  
 Surface tension: Not determined  
 Solvents content: Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See also Subsection 10.4 to 10.6.  
 The product has not been tested.

### 10.2 Chemical stability

See also Subsection 10.4 to 10.6.  
 Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

See also Subsection 10.4 to 10.6.  
 No decomposition if used as intended.

### 10.4 Conditions to avoid

See also section 7.  
 Strong heat

### 10.5 Incompatible materials

See also section 7.  
 Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

See also Subsection 10.4 to 10.6.  
 See also section 5.2  
 No decomposition when used as directed.

## SECTION 11: Toxicological information

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Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	> 5000	mg/kg	Rat		Analogous conclusion
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg			Analogous conclusion
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						Based on available data, the classification criteria are not met., Classification based on toxicological analyses.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Respiratory tract irritation:						n.d.a.
Repeated dose toxicity:						n.d.a.
Symptoms:						n.d.a.

### Polysulfides, di-tert-Bu

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Skin corrosion/irritation:						Mild irritant
Serious eye damage/irritation:						Mild irritant

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## SECTION 12: Ecological information

The product was not tested.

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Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50		100-1000	mg/l			
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							Analogous conclusion, Potentially biologically degradable.
Bioaccumulative potential:							Concentration in organisms possible.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.

### Polysulfides, di-tert-Bu

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	250-500	mg/l	(Pimephales promelas)	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	>1000	mg/l	(Daphnia magna)	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	ErC50	96h	>100	mg/l	(Selenastrum capricornutum)	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	(activated sludge)	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.  
 EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

13 02 06 synthetic engine, gear and lubricating oils

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

#### For contaminated packing material

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

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## SECTION 14: Transport information

### General statements

UN number: n.a.

### Transport by road/by rail (ADR/RID)

UN proper shipping name:  
 Transport hazard class(es): n.a.  
 Packing group: n.a.  
 Classification code: n.a.  
 LQ (ADR 2011): n.a.  
 LQ (ADR 2009): n.a.  
 Environmental hazards: Not applicable  
 Tunnel restriction code:

### Transport by sea (IMDG-code)

UN proper shipping name:  
 Transport hazard class(es): n.a.  
 Packing group: n.a.  
 Marine Pollutant: n.a.  
 Environmental hazards: Not applicable

### Transport by air (IATA)

UN proper shipping name:  
 Transport hazard class(es): n.a.  
 Packing group: n.a.  
 Environmental hazards: Not applicable

### Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

For classification and labelling see Section 2.

Observe restrictions: Yes

### 15.2 Chemical safety assessment

No information available at present.

## SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 2, 3, 11, 12

The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3).

- 43 May cause sensitization by skin contact.
- 53 May cause long-term adverse effects in the aquatic environment.
- 22 Harmful if swallowed.
- 41 Risk of serious damage to eyes.
- 51 Toxic to aquatic organisms.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Skin Sens.-Skin sensitization  
 Aquatic Chronic-Hazardous to the aquatic environment - chronic  
 Flam. Liq.-Flammable liquid  
 Acute Tox.-Acute toxicity - oral  
 Eye Dam.-Serious eye damage

## Legend:

AC = Article Categories

ACGIH = American Conference of Governmental Industrial Hygienists

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX = Adsorbable organic halogen compounds

Art. no. = Article number

ATE = Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAG = Bundesamt für Gesundheit = Federal Office of Public Health (FOPH), Switzerland

BAM = Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA = Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF = Bioconcentration factor

BGV = Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BMGV = Biological monitoring guidance value (EH40, UK)

CAS = Chemical Abstracts Service

CESIO = Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

ChemRRV = (= Observe Chemikalien-Risikoreduktions-Verordnung)

CIPAC = Collaborative International Pesticides Analytical Council

CLP = Classification, Labelling and Packaging

CMR = carcinogenic, mutagenic, reproductive toxic

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

CTFA = Cosmetic, Toiletry, and Fragrance Association

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

DOC = Dissolved Organic Carbon

DVS = Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

e.g. = for example

EC = Effective Concentration

EC = European Community

ECHA = European Chemicals Agency

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

EPA = Environmental Protection Agency (USA)

ERC = Environmental Release Categories

ES = Exposure scenario

etc. = et cetera

EWC = European Waste Catalogue

Fax. = Fax number

gen. = general

GWP = Global warming potential

HET-CAM = Hen's Egg Test - Chorionallantoic Membrane

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IC = Inhibitory concentration

IMDG-Code = International Maritime Dangerous Goods Code

incl. = included

LC = lethal concentration

LC50 = lethal concentration 50 percent kill

LCLo = lowest published lethal concentration

LD50 = Lethal Dose, 50%

LDLo = Lethal Dose Low

LOAEL = Lowest Observed Adverse Effect Level

LOEC = Lowest Observed Effect Concentration

LOEL = Lowest Observed Effect Level

LQ = Limited Quantities

n.a. = not applicable

n.av. = not available

n.c. = not checked

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n.d.a. = no data available  
NIOSH = National Institute of Occupational Safety and Health  
No. = Number  
NOAEC = No Observed Adverse Effective Concentration  
NOAEL = No Observed Adverse Effect Level  
NOEL = No Observed Effect Level  
Note. = Annotation  
ODP = Ozone Depletion Potential  
OECD = Organisation for Economic Co-operation and Development  
PC = product category (= Chemical product category)  
PE = Polyethylene  
PNEC = Predicted No Effect Concentration  
POCP = Photochemical ozone creation potential  
ppm = parts per million  
PROC = Process category  
PTFE = Polytetrafluorethylene  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
SU = Sector of use  
SVHC = Substances of Very High Concern  
Tel. = Telephone  
ThOD = Theoretical Oxygen Demand  
TOC = Total Organic Carbon  
TRGS = Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)  
VbF = Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))  
VOC = Volatile organic compounds  
vPvB = very Persistent, very Bioaccumulative  
WEL-TWA, WEL-STEL = WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.  
No responsibility.

These statements were made by:

**Chemical Check GmbH, Wöbbeler Straße 2-4, D-32839 Steinheim, Tel.: +49 5233 94 17 0, +49 1805-CHEMICAL / +49 180 52 43 642, Fax: +49 5233 94 17 90, +49 180 50 50 455**

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