

## Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 12/16/2004

Reviewed on 12/16/2004

### 1 Identification of substance

- **Product details**
- **Trade name:** Gear lubricant for STIHL 036 QS chain saws
- **Article number:** 0781 120 1111
- **Application of the substance / the preparation** Replacement sprocket grease for grease gun.
- **Manufacturer/Supplier:**  
ANDREAS STIHL AG & Co.KG  
Badstr. 115  
D-71336 Waiblingen  
Tel: +49(0)7151-26-3237  
Fax: +49(0)7151-26-8-3237
- **Importer:**  
STIHL Incorporated  
536 Viking Drive  
P.O. Box 2015  
Virginia Beach, Virginia 23450-2015  
USA  
Tel: (757) 486-9100
- **Information department:**  
Produktmanagement Forsttechnik  
Tel: +49(0)7151-26-3237  
Fax: +49(0)7151-26-83237
- **Emergency information:**  
Tel: +49-621-60-43333  
Fax: +49-621-60-92664

### 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture made of named basic oils with additives and lithium soaps used as thickeners.

- **Dangerous components:**

68457-79-4	Zinkdialkyldithiophosphat	< 2.5%
27136-73-8	1-H-imidazol-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-	< 2.5%

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

### 3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**  
The product has to be labelled due to the calculation procedure of international guidelines.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

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- **HMIS-ratings (scale 0 - 4)**

*0	Health = *0
1	Fire = 1
REACTIVITY 0	Reactivity = 0

## 4 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.  
An inadvertent high-pressure injection through the skin immediately requires medical aid.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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 caused by the material, its products of combustion or resulting gases:**  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur dioxide (SO<sub>2</sub>)
- **Protective equipment:**  
Use a breathing apparatus that is independent of circulating air when being in closed rooms.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Observe information for safe handling (item 7) and personal protective equipment (item 8).  
Ensure adequate ventilation
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
In case of broken hydraulic oil pipes which are under pressure it could happen that the product is injected under the skin. Such accidents always require medical treatment.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.

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Protect from heat and direct sunlight.

## 8 Exposure controls and personal protection

- **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.

- **Personal protective equipment:**

- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

- **Breathing equipment:** Not necessary if room is well-ventilated.

- **Protection of hands:**

Oil resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **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.

- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

- **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

- **General Information**

<b>Form:</b>	Solid
<b>Color:</b>	Light brown
<b>Odor:</b>	Mild

- **Change in condition**

<b>Melting point/Melting range:</b>	>180°C (>356°F) (DIN 51801)
<b>Boiling point/Boiling range:</b>	> 316°C (> 601°F) (OECD 103)

- **Flash point:** > 204°C (> 399°F) (ISO 2592)

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

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

- **Vapor pressure at 20°C (68°F):** <0.1 hPa (<0 mm Hg) (DIN 51383)

- **Density at 15°C (59°F):** 0.879 g/cm<sup>3</sup> (DIN 51757)

- **Solubility in / Miscibility with**

<b>Water at 20°C (68°F):</b>	<0.1 g/l (OECD 105)
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- **pH-value at 20°C (68°F):** n.a.

- **Segregation coefficient (n-octanol/water):** >3.5 log POW (OECD 107)

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· <b>Viscosity:</b> <b>Kinematic at 40°C (104°F):</b>	150 mm <sup>2</sup> /s
· <b>Solvent content:</b> <b>Water:</b>	0.0 %
<b>VOC content:</b>	0.0 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Materials to be avoided:** Avoid contact with strong oxidizing agents.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:**  
None in case of intended use and storage in compliance with instructions.

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:**  
Sensitive persons can possibly have allergic reactions. This is also valid below the fixed levels of exposure.

## 12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:**  
Biodegradability is not probable due to the consistency as well as the low degree of water solubility of the product.
- **Behavior in environmental systems:**
- **Mobility and bioaccumulation potential:**  
Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.
- **Additional ecological information:**
- **AOX-indication:**  
The product contains 0,1 to 1,0% organically bound chlorine. I may contribute to the AOX.
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Product:**
- **Recommendation:**  
When storing used mineral oil products, ensure that the categories for waste oil and mixing instructions are observed.  
The product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility.  
Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

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Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

The waste code numbers mentioned are recommendations based on the probable use of the product.

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

## 14 Transport information

- **DOT regulations:**
- **Hazard class:** No hazardous good
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** No hazardous good.
- **Maritime transport IMDG:**
- **IMDG Class:** No hazardous good.
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** Not Restricted.

## 15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic

64741-96-4 Distillates (petroleum), solvent-refined heavy naphthenic

64742-62-7 Residual oils (petroleum), solvent-dewaxed

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

- **Carcinogeny categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

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.

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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)**

None of the ingredients is listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Risk phrases:**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· **Safety phrases:**

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

In case of accident or if you feel unwell, seek medical advice immediately.

## 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:**

The safety data sheets were drawn up in cooperation with the Umweltkanzlei Dr. Rhein, Phone: +49(0)5066-900990 and the Dekra Umwelt GmbH, Phone: +49(0)511-96355-0.

USA