

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

Printing date 10/21/2008

Reviewed on 10/21/2008

### 1 Identification of substance

- **Product details**
- **Trade name: Mehrzweckfett für Heckenscheren und Elektrosägengetriebe**  
**Multipurpose grease for hedge trimmers and electric saw gears**
- **Article number:** 0781 120 1109, 0781 120 1110
- **Application of the substance / the preparation**  
Multipurpose grease for hedge trimmers and electric saw gears
- **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
- 
- **Distributed by:**  
STIHL Incorporated  
536 Viking Drive  
Virginia Beach, VA 23452  
(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:** Lithium soap lubricating grease on the basis of mineral oils.

- **Dangerous components:**

68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zink salts	< 2.5%
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- **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 does not have to be labelled due to the calculation procedure of international guidelines.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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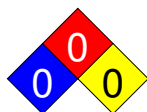
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· **NFPA ratings (scale 0 - 4)**



Health = 0  
 Fire = 0  
 Reactivity = 0

· **HMS-ratings (scale 0 - 4)**



HEALTH 0 Health = 0  
 FIRE 0 Fire = 0  
 REACTIVITY 0 Reactivity = 0

## 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
 Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.
- **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.

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
 CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fire with 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:**  
 Formation of toxic gases is possible during heating or in case of fire.  
 In case of fire, the following can be released:  
 Carbon monoxide (CO)  
 Sulphur dioxide (SO<sub>2</sub>)
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
 Use water to keep fire exposed containers cool.  
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

- **Person-related safety precautions:**  
 Ensure adequate ventilation  
 Particular danger of slipping on leaked/spilled product.
- **Measures for environmental protection:**  
 Do not allow to penetrate the ground/soil.  
 Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:**  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

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## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only undamaged original packaging drums.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from frost.  
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:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
Oil resistant gloves  
In case of longer or repeated contact with the skin: use protective cream for the skin surfaces coming into contact with the product.
- **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.
- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Pasty
<b>Color:</b>	Light brown
<b>Odor:</b>	Characteristic

### · Change in condition

**Melting point/Melting range:** >180 °C (>356 °F) (DIN ISO 2176)  
**Boiling point/Boiling range:** Undetermined.

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· <b>Flash point:</b>	> 200 °C (> 392 °F) (Grundoeel)
· <b>Ignition temperature:</b>	> 300 °C (> 572 °F) (DIN 51794)
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Density at 20 °C (68 °F):</b>	0.92-0.96 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>pH-value at 20 °C (68 °F):</b>	n.a.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<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:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** More frequent and continuous contact with the skin may result in irritation of the skin.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:

## 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.
- **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.

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### 13 Disposal considerations

- **Product:**
- **Recommendation:**  
*The waste code numbers mentioned are recommendations based on the probable use of the product.  
 The product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility.*
- **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.*
- **Transport/Additional information:** *Not dangerous according to the above specifications.*

### 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):**  
*All ingredients are listed.*
- **Proposition 65**
- **Chemicals known to cause cancer:**  
*None of the ingredients is listed.*
- **Chemicals known to cause reproductive toxicity for females:**  
*None of the ingredients is listed.*
- **Chemicals known to cause reproductive toxicity for males:**  
*None of the ingredients is listed.*
- **Chemicals known to cause developmental toxicity:**  
*None of the ingredients is listed.*
- **Carcinogeny categories**
- **EPA (Environmental Protection Agency)**  
*None of the ingredients is listed.*

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· **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.

· **AGW (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **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:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

## 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.

· **\* Data compared to the previous version altered.**

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