

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 08/25/2011

Reviewed on 08/25/2011

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

- **Product identifier**
- **Trade name:** Fett für Umlenkstern
Grease for nose sprocket
- **Article number:** 0781 120 1111
- **Application of the substance / the preparation** Sprocket grease for grease gun.
- **Details of the supplier of the safety data sheet**
- **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 telephone number:**
Tel: +49-621-60-43333
Fax: +49-621-60-92664

2 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Mixture made of named basic oils with additives and lithium soaps used as thickeners.*
- **Dangerous components:** *Void*
- **Additional information:** *Highly refined mineral oil (IP 346 DMSO < 3%)*

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** *Void*

- **Label elements**
- **Labelling according to EU guidelines:**
The substance is not subject to classification according to the sources of literature known to us.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

(Contd. on page 2)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

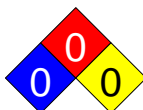
Printing date 08/25/2011

Reviewed on 08/25/2011

Trade name: Fett für Umlenkstern
Grease for nose sprocket

(Contd. of page 1)

· **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

- **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 Firefighting measures

- **Suitable extinguishing agents:**
 CO₂, 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 arising from the substance or mixture**
 In case of fire, the following can be released:
 Sulphur dioxide (SO₂)
- **Protective equipment:**
 Use a breathing apparatus that is independent of circulating air when being in closed rooms.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 Observe information for safe handling (item 7) and personal protective equipment (item 8).
 Avoid contact with the product.
 Ensure adequate ventilation
- **Environmental precautions:**
 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.
- **Methods and material for containment and cleaning up:**
 Pick up mechanically.
 Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

USA

(Contd. on page 3)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 08/25/2011

Reviewed on 08/25/2011

Trade name: Fett für Umlenkstern
Grease for nose sprocket

(Contd. of page 2)

7 Handling and storage

- **Handling:**
- **Precautions 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.
 Protect from heat and direct sunlight.*
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/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:** *No chemical-protective gloves required.*
- **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 through 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**
- **Appearance:**

Form:	Solid
Color:	Light brown
Odor:	Mild
- **pH-value at 20°C (68 °F):** n.a.
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 316°C (> 601 °F) (OECD 103)
- **Flash point:** > 204°C (> 399 °F) (ISO 2592)

(Contd. on page 4)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 08/25/2011

Reviewed on 08/25/2011

Trade name: Fett für Umlenkstern
Grease for nose sprocket

(Contd. of page 3)

· 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):	0.9 g/cm ³ (7.511 lbs/gal) (DIN 51757)
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Segregation coefficient (n-octanol/water):	>3.5 log POW (OECD 107)
· Viscosity: Kinematic at 40°C (104 °F):	150 mm ² /s
· Solvent content: VOC content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Incompatible materials:** Avoid contact with strong oxidizing agents.
- **Hazardous decomposition products:**
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

- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **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:**
- **Bioaccumulative potential:**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water

(Contd. on page 5)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 08/25/2011

Reviewed on 08/25/2011

Trade name: Fett für Umlenkstern
Grease for nose sprocket

(Contd. of page 4)
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Waste treatment methods**
- **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.
 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

- | | |
|--|-----------------|
| · UN-Number | Void |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | Void |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | Void |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Class | Void |
| · Packing group | Void |
| · DOT, ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

15 Regulatory information

- **Sara**
- **Section 355 (extremely hazardous substances):**
 None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):**
 None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):**
 All ingredients are listed.

(Contd. on page 6)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 08/25/2011

Reviewed on 08/25/2011

Trade name: Fett für Umlenkstern
Grease for nose sprocket

(Contd. of page 5)

- **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.

- **Cancerogenity 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.

- **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.

- **Product related hazard informations:**

The substance is not subject to classification according to the sources of literature known to us.

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 Beratungs- und Prüfgesellschaft mbH, Phone: +49(0)5066-900990.

- *** Data compared to the previous version altered.**

USA