

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 01/12/2012

Reviewed on 01/12/2012

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

- **Product identifier**
- **Trade name:** *HP Super*
- **Article number:** 0781 319 805...
- **Application of the substance / the preparation** *Engine oil*
- **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:** *Highly refined mineral oil (IP 346 DMSO < 3%) and additives.*

· **Dangerous components:**

<i>Phenol, (dimethylamino)-methyl poly isobutylene derivs.</i>	10-25%
<i>Kohlenwasserstoffe, C10-C13, n-Alkane, Isoalkane, zyklische, < 2% Aromaten</i>	10-25%
<i>Phenol, poly isobutylene derivs.</i>	5-10%

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

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** *Void*
- **Information concerning particular hazards for human 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.

(Contd. on page 2)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/12/2012

Reviewed on 01/12/2012

Trade name: HP Super

(Contd. of page 1)

- **Label elements**

- **Labelling according to EU guidelines:**

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

- **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 = 2
Reactivity = 0

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



Health = 0
Fire = 2
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:**
Generally the product does not irritate the skin.
Immediately rinse with water.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Keep eye lids open and rinse them amply with clean running water for at least 15 minutes.
In case of permanent aches and pains please go and see the doctor.
- **After swallowing:**
Do not induce vomiting in order to prevent an invasion into the lungs.
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:
Carbon monoxide (CO)
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Keep away from ignition sources
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/12/2012

Reviewed on 01/12/2012

Trade name: HP Super

(Contd. of page 2)

Particular danger of slipping on leaked/spilled product.

- **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Remove from the water surface (e.g. skim or suck off).

Should larger amounts of liquid run out stem it and dispose it of.

Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.

- **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.

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Avoid contact with eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

Prevent any seepage into the ground.

- **Information about storage in one common storage facility:** Store away from oxidizing agents.

- **Further information about storage conditions:** Storage in a collecting room is required.

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **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:**

Do not carry product impregnated cleaning cloths in trouser pockets.

Be sure to clean skin thoroughly after work and before breaks.

- **Breathing equipment:**

Not necessary if room is well-ventilated.

In case of insufficient removal by suction or longer inhalation a breathing protection is required.

- **Protection of hands:**

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

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

(Contd. on page 4)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/12/2012

Reviewed on 01/12/2012

Trade name: HP Super

(Contd. of page 3)

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.

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**

- **Appearance:**

Form:	Fluid
Color:	blue-green
Odor:	Weak, characteristic

- **pH-value:** Not determined.

- **Change in condition**

Boiling point/Boiling range: Undetermined.

- **Flash point:** 76°C (169 °F) (cc)

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

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

- **Density at 20°C (68 °F):** 0.86 g/cm³ (7.177 lbs/gal) (DIN 51757)

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

- **Segregation coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

Kinematic at 100°C (212 °F): 7.5 mm²/s

- **Solvent content:**

Organic solvents: 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.

USA

(Contd. on page 5)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/12/2012

Reviewed on 01/12/2012

Trade name: HP Super

(Contd. of page 4)

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:**
Longer or repeated contact with the product reduces the natural readipogenesis of the skin and results in the desiccation of the skin. That product can be absorbed via the skin.
More frequent and continuous contact with the skin may result in irritation of the skin.
- **on the eye:** Splashes can cause temporary eye irritation.
- **Sensitization:**
Sensitive persons can possibly have allergic reactions. This is also valid below the fixed levels of exposure.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** biodegradable
- **Behavior in environmental systems:**
- **Components:**
A product that has flown out can lead to the formation of a film on the water surface which reduces the oxygen exchange and results in the organisms dying-off.
- **Bioaccumulative potential** Not worth-mentioning accumulating in organisms
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
The product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility.
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 | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · DOT, ADR, ADN, IMDG, IATA | Void |

(Contd. on page 6)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/12/2012

Reviewed on 01/12/2012

Trade name: HP Super

(Contd. of page 5)

· Transport hazard class(es)	
· DOT	
· Class	Void No hazardous good
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· 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.
· Transport/Additional information:	Not dangerous according to the above specifications.

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):**

None of the ingredients is 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.

· **Carcinogen 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.

(Contd. on page 7)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/12/2012

Reviewed on 01/12/2012

Trade name: HP Super

(Contd. of page 6)

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

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

USA