

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 03/29/2006

Reviewed on 03/29/2006

1 Identification of substance

· **Product details**

· **Trade name:** Stihl Harzlöser
Resin remover

· **Article number:** 0782 420 1002

· **Application of the substance / the preparation** Resin and Oil dissolver

· **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:**

Preparation made of pressurized-gas as well as lubricant and anti-rust additives in dearomatized petrols with mineral oil.

· **Dangerous components:**

CAS: 64742-55-8	Distillates (petroleum), hydrotreated light paraffinic	25-50%
CAS: 64742-47-8	Distillates (petroleum), hydrotreated light	25-50%
CAS: 74-98-6 RTECS: TX 2275000	propane liquefied	2.5-10%
CAS: 106-97-8 RTECS: EJ 4200000	butane, pure	2.5-10%

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

3 Hazards identification

· **Hazard description:**



F+ Extremely flammable

· **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.
Warning! Pressurized container.
Extremely flammable.

(Contd. on page 2)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/29/2006

Reviewed on 03/29/2006

Trade name: Stihl Harzlöser
Resin remover

(Contd. of page 1)

Repeated exposure may cause skin dryness or cracking

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

· **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 = 4
Reactivity = 3

· **HMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 4
Reactivity = 3

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.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
In case of permanent aches and pains please go and see the doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.

5 Fire fighting 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 caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:**
Keep away from ignition sources
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Dispose of the collected material according to regulations.

(Contd. on page 3)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/29/2006

Reviewed on 03/29/2006

Trade name: Stihl Harzlöser
Resin remover

(Contd. of page 2)

Ensure adequate ventilation.

- **Additional information:** See Section 13 for disposal information.

7 Handling and storage

- **Handling:**

- **Information for safe handling:**

Keep away from heat and direct sunlight.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

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

Highly volatile, flammable constituents are released during processing.

Keep ignition sources away - Do not smoke.

- **Storage:**

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

Store only undamaged original packaging drums.

Store containers in a well aired place at a temperature of less than 50°C.

Observe official regulations on storing packagings with pressurized containers.

- **Information about storage in one common storage facility:**

Take also into account special standards when storing the containers together with inflammable liquids.

Store away from flammable substances.

- **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

8 Exposure controls and personal protection

- **Components with limit values that require monitoring at the workplace:**

64742-47-8 Distillates (petroleum), hydrotreated light

TLV 200 mg/m³

As total hydrocarbon vapor; Skin; (P)

74-98-6 propane liquefied

PEL 1800 mg/m³, 1000 ppm

REL 1800 mg/m³, 1000 ppm

TLV (4508) mg/m³, (2500) ppm

106-97-8 butane, pure

REL 1900 mg/m³, 800 ppm

TLV 1900 mg/m³, 800 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- **Breathing equipment:**

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.

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

(Contd. on page 4)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/29/2006

Reviewed on 03/29/2006

Trade name: Stihl Harzlöser
Resin remover

(Contd. of page 3)

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 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:**

Use appropriate eye protection in thermoprocessing operations if ventilation is inadequate.

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**

Form:	Aerosol
Color:	Black
Odor:	Characteristic

- **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 190-245°C (374-473°F)

- **Flash point:** Not applicable, as aerosol.

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

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

Lower:	0.5 Vol %
Upper:	6.5 Vol %

- **Density at 20°C (68°F):** 0.83 g/cm³

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

- **Solvent content:**

VOC content: 5.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous products of decomposition:**

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 03/29/2006

Reviewed on 03/29/2006

**Trade name: Stihl Harzlöser
Resin remover**

(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 reepithelization of the skin and results in the desiccation of the skin. That product can be absorbed via the skin.
- **on the eye:** Slightly irritant
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

- **Product:**
- **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

- **DOT regulations:**



- **Hazard class:** 2
- **Identification number:** UN1950
- **Proper shipping name (technical name):** AEROSOLS
- **Label:** 2.1

- **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 2 5F Gases
- **UN-Number:** 1950
- **Label:** 2.1
- **Description of goods:** 1950 AEROSOLS

- **Maritime transport IMDG:**



- **IMDG Class:** 2
- **UN Number:** 1950

(Contd. on page 6)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/29/2006

Reviewed on 03/29/2006

**Trade name: Stihl Harzlöser
Resin remover**

(Contd. of page 5)

- **Label** 2.1
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Propper shipping name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Propper shipping name:** AEROSOLS, flammable

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.

- **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.

- **MAK (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.

(Contd. on page 7)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/29/2006

Reviewed on 03/29/2006

Trade name: Stihl Harzlöser
Resin remover

(Contd. of page 6)

- **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%)**

106-97-8 | butane, pure

- **Product related hazard informations:**

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

- **Hazard symbols:**



F+ Extremely flammable

- **Risk phrases:**

Extremely flammable.

Repeated exposure may cause skin dryness or cracking

- **Safety phrases:**

Keep out of the reach of children.

Do not breathe aerosol

If swallowed, seek medical advice immediately and show this container or label.

Use only in well-ventilated areas.

Dispose of this material and its container at hazardous or special waste collection point

- **Special labeling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition -

No smoking.

- **National regulations:**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

- **Other regulations, limitations and prohibitive regulations**

Observe the "Technische Regel Druckgase" (TRG 300) during handling and storage.

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.**