

# Safety Data Sheet according to Regulation (EC)

## No. 1907/2006 (REACH)

Printed 17.11.2009

Revision 09.11.2009 (GB) Version 1.5

### Antifrogen SOL HT

1631



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>Name of product</b>	Antifrogen SOL HT Art-Nr.: 1631
<b>Manufacturer/distributor</b>	GHC Gerling, Holz & Co. Handels GmbH Ruhrstraße 113, D-22761 Hamburg Phone +49 (0) 40 853 123-0, Fax +49 (0) 40 853 123-66  E-Mail <a href="mailto:msds@ghc.de">msds@ghc.de</a> Internet <a href="http://www.ghc.de">www.ghc.de</a>
<b>Advice</b>	Phone +49 (0) 40 853 123-0 Fax +49 (0) 40 853 123-66
<b>Emergency advice</b>	GHC Gerling, Holz & Co. Handels GmbH Phone +49 (0) 40 853 123-0
<b>Recommended intended purpose(s)</b>	Cooling liquid brine. Convectector fluid. Functional fluid.

## 2. HAZARDS IDENTIFICATION

### Information pertaining to special dangers for human and environment

May produce an allergic reaction.

Dangerous substances are released in case of decomposition.

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous ingredients

CAS No	EC No	Name	[% wt]	Classification according to 67/548/EEC
19766-89-3	243-283-8	Sodium 2-ethylhexanoate	< 1,5	Xn; R 63

## 4. FIRST AID MEASURES

### General information

Remove contaminated soaked clothing immediately.

Adhere to personal protective measures when giving first aid.

Seek medical advice immediately.

### In case of inhalation

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

### In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

### In case of eye contact

Eye rinsing with water carefully while protecting unhurt eye.

Call for a doctor immediately.

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### In case of ingestion

Call for a doctor immediately.

Rinse out mouth and give plenty of water to drink.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

### Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire formation of dangerous gases possible.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

### Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply ( isolated ).

Wear full protective clothing.

### Additional information

Cool endangered containers with water spray jet.

Exposure to fire may cause containers to rupture/explode.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

See chapter 8.

Remove persons to safety.

### Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the subsoil/soil.

### Methods for cleaning up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Flush away residues with water.

After taking up the material dispose according to regulation.

### Additional Information

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

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## 7. HANDLING AND STORAGE

### Advice on safe handling

Use only in thoroughly ventilated areas.

Provide good room ventilation even at ground level (vapours are heavier than air).

### Requirements for storage rooms and vessels

Keep in closed original container.

Ventilate store-rooms thoroughly.

Do not use zinc containers.

### Advice on storage compatibility

Do not store together with animal feedstuffs.

Do not store together with food.

Do not store together with oxidizing agents.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Additional advice on system design

no

### Additional advice

no

### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation.

Keep self contained breathing apparatus readily available for emergency use.

Breathing apparatus with combination filter A-P2.

### Hand protection

chemical-resistant gloves

Glove material specification [make/type, thickness, permeation time/life]: NBR; 0,4 mm;  $\geq$  30 min

Glove material specification [make/type, thickness, permeation time/life]: IIR,  $\geq$  0,7 mm,  $>$  480 min

### Eye protection

safety goggles, in case of increased risk add protective face shield

### Skin protection

protective clothing

### General protective measures

Do not inhale gases/vapours/aerosols.

### Hygiene measures

At work do not eat, drink and smoke.

### Limitation and surveillance of the environment

See chapter 7.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form**  
liquid

**Colour**  
blue green

**Odour**  
hardly noticeable

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	ca. 9				
<b>boiling point</b>	ca. 105 °C		1013 hPa	ASTM D 1120	
<b>melting point</b>	ca. -28 °C			DIN 51583	
<b>Flash point</b>				no	
<b>Ignition temperature</b>	ca. 420 °C			DIN 51794	
<b>Lower explosion limit</b>				not determined	
<b>Upper explosion limit</b>				not determined	
<b>Vapour pressure</b>	$<$ 1 hPa	20 °C		calculated	Information concerns to main component.

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	Value	Temperature	at	Method	Remark
<b>Density</b>	ca. 1,08 g/ cm <sup>3</sup>	20 °C		DIN 51757	
<b>Solubility in water</b>					multimiscible
<b>Partition coefficient (log p<sub>OW</sub>)</b>	not applicable				
<b>Viscosity kinematic</b>	ca. 7,4 mm <sup>2</sup> /s	20 °C		DIN 51562	
<b>Oxidizing properties</b>	not applicable				
<b>Additional information</b>	Vapours are heavier than air.				

## 10. STABILITY AND REACTIVITY

### Conditions to avoid

Heat sources / heat - risk of bursting.

### Materials to avoid

Reactions with acids.

Reactions with oxidising agents.

### Hazardous decomposition products

Carbon monoxide

Nitrous oxides (NO<sub>x</sub>)

### Thermal decomposition

Method DSC

Remark No decomposition below 200°C.

### Additional information

Stable under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD 50 acute oral</b>			not determined	
<b>LD 50 acute dermal</b>			not determined	

### Subacute Toxicity - Carcinogenicity

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Value	Species	Method	Validation
Mutagenicity			not determined

## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATIONS

### Waste code No.

16 01 15

### Name of waste

antifreeze fluids other than those mentioned in 16 01 14

### Recommendations for the product

Collect waste separated in suitable, labeled and lockable containers.

Dispose in accordance with local official regulations.

### Recommendations for packaging

Totally emptied packaging: Return to supplier / manufacturer.

## 14. TRANSPORT INFORMATION

### Land and inland navigation transport ADR/RID

No hazardous material as defined by the prescriptions.

### Marine transport IMDG

No hazardous material as defined by the prescriptions.

### Air transport ICAO/IATA-DGR

No hazardous material as defined by the prescriptions.

## ! 15. REGULATORY INFORMATION

### Remarks for labelling

The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

### ! Special labelling for certain preparations

Safety data sheet available for professional user on request.

Contains 2,2'-[[[4-Methyl-1H-benzotriazol-1-yl)methyl]imino]bisethanol.

Contains 2,2'-[[[5-Methyl-1H-benzotriazol-1-yl)methyl]imino]bisethanol.

May produce an allergic reaction.

## 16. OTHER INFORMATION

### Recommendend uses and restrictions

National and local regulations concerning chemicals shall be observed.

### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

### Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)

R 63 Possible risk of harm to the unborn child.