

# Safety data sheet in accordance with 2001/58/EC

## PROTECTOGEN

Page 1

Substance key: 000000121445  
Version : 2 - 5 / EU

Revision Date: 18.02.2005  
Date of printing : 30.06.2008

### 1. Identification of the substance/preparation and company

#### Trade name

**PROTECTOGEN**

#### Use of the substance/preparation.

Industry sector : Functional Fluids  
Type of use : Techno-chemical industry.

#### Identification of the company

Clariant Produkte (Deutschland) GmbH

65926 Frankfurt am Main  
Telephone no. : +49 69 305 18000

#### Information about the substance/preparation

Div. Functional Chemicals/PRODUCT SAFETY  
++49(0)69-305-2092/15315/32251

**Emergency telephone number** : +49 69 305 6418

### 2. Composition/information on ingredients

#### Chemical characterization

Aqueous mixture of sodium ethylhexanoate and inhibitore

#### Hazardous ingredients

Sodium-2-ethylhexanoate  
Concentration : 50 - 80 %  
CAS number : 19766-89-3  
EINECS number : 243-283-8  
Hazard symbols Xn  
R phrases 63

Methyl-1H-benzotriazole  
Concentration : < 3,5 %  
CAS number : 29385-43-1  
EINECS number : 249-596-6  
Hazard symbols Xn  
R phrases 20/22 36

### 3. Hazards identification

Possible risk of harm to the unborn child.

### 4. First aid measures

#### General information

Remove soiled or soaked clothing immediately

#### After inhalation

Ensure supply of fresh air.

# Safety data sheet in accordance with 2001/58/EC

## PROTECTOGEN

Page 2

Substance key: 000000121445  
Version : 2 - 5 / EU

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**After contact with skin**

In case of contact with skin wash off immediately with plenty of water

**After contact with eyes**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice

**After ingestion**

Summon a doctor immediately.

### 5. Fire-fighting measures

**Suitable extinguishing media**

water spray jet  
dry powder  
carbon dioxide  
alcohol-resistant foam

**Special hazards from the substance itself, its combustion products or from its vapours**

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)  
Nitrous gases (NO<sub>x</sub>)

**Special protective equipment for firefighting**

Use self-contained breathing apparatus

### 6. Accidental release measures

**Personal precautions**

Ensure adequate ventilation.  
Wear suitable personal protective equipment.

**Environmental precautions**

Do not allow to enter drains or waterways

**Methods for cleaning up/taking up**

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust).  
Dispose of as prescribed

### 7. Handling and storage

**Advice on safe handling**

Open and handle container with care.

**Advice on protection against fire and explosion**

Observe the general rules of industrial fire protection

**Advice on storage compatibility**

Do not store together with oxidizing agents.

### 8. Exposure controls/personal protection

**General protective measures**

Avoid contact with eyes and skin

# Safety data sheet in accordance with 2001/58/EC

## PROTECTOGEN

Substance key: 000000121445  
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### Hygiene measures

Keep away from foodstuffs and beverages.

**Respiratory protection :** Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure  
Full mask to standard DIN EN 136  
Filter A (organic gases and vapours) to standard DIN EN 141  
The use of filter apparatus presupposes that the environment atmosphere contains at least 17% oxygen by volume, and does not exceed the maximum gas concentration, usually 0.5% by volume. Relevant guidelines to be considered include EN 136/141/143/371/372 as well as other national regulations.

**Hand protection :** For long-term exposure:  
Butyl rubber gloves  
Minimum breakthrough time / gloves : 480 min  
Minimum thickness / gloves 0,7 mm

For short-term exposure (splash protection):  
Nitrile rubber gloves.  
Minimum breakthrough time / gloves : 30 min  
Minimum thickness / gloves 0,4 mm

These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

**Eye protection :** safety glasses

**Body protection :** protective clothing

## 9. Physical and chemical properties

**Form :** Liquid

**Colour :** yellowish

**Odour :** characteristic

**Solidifying Point :** -30 °C  
Method : DIN 51583

**Boiling temperature :** approx. 113 °C ( 1.013 mbar)  
Method : ASTM D 1120

**Flash point :** > 100 °C  
Method : ISO 2592 (open cup)

**Ignition temperature :** > 450 °C  
Method : DIN 51794

**Oxidizing properties :** Not applicable

**Self-ignition temperature :** not self-igniting

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<b>Lower explosion limit :</b>	Not applicable
<b>Upper explosion limit :</b>	Not applicable
<b>Evaporation rate :</b>	Not applicable
<b>Vapour pressure :</b>	< 1 mbar (20 °C) Method : Calculated by Syracuse.
<b>Density :</b>	approx. 1,10 g/cm <sup>3</sup> (20 °C) Method : DIN 51757
<b>Bulk density :</b>	Not applicable
<b>Vapour density in relation to air :</b>	Not applicable
<b>Solubility in water :</b>	(20 °C) miscible in all proportions
<b>Soluble in ... :</b>	fat not determined
<b>pH value :</b>	approx. 8,5 (20 °C, 20 g/l) Method : DIN EN 1262
<b>Octanol/water partition coefficient (log Pow) :</b>	Not applicable
<b>Viscosity (kinematic) :</b>	approx. 350 mm <sup>2</sup> /s ( 20 °C) Method : DIN 51562
<b>Combustion number :</b>	Not applicable

### 10. Stability and reactivity

**Thermal decomposition :** approx. 250 °C  
Method : DSC

**Hazardous reactions**  
Reactions with oxidising agents.

### 11. Toxicological information

<b>Acute oral toxicity :</b>	not determined
<b>Acute inhalation toxicity :</b>	not determined
<b>Acute dermal toxicity :</b>	not determined
<b>Irritant effect on skin :</b>	not determined
<b>Irritant effect on eyes :</b>	not determined
<b>Sensitization :</b>	not determined
<b>Mutagenicity :</b>	not determined

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### Remarks

The product was classified on the basis of the calculation procedure of the Dangerous Preparations Directive (1999/45/EC).

## 12. Ecological information

<b>Biodegradability :</b>	> 96 % (14 d) Method : OECD 302 B
<b>Fish toxicity :</b>	LC50 > 100 mg/l (96 h, zebra fish) Method : OECD 203
<b>Bacteria toxicity :</b>	EC50 84 mg/l (30 min, Vibrio fisheri) Method : DIN EN ISO 11348-2
<b>Dissolved Organic carbon (DOC) :</b>	387 mg/g Method : DIN/EN 1484
<b>Chemical oxygen demand (COD) :</b>	1.479 mg/g Method : ISO/DIS 15705

## 13. Disposal considerations

### Product

In accordance with local authority regulations, take to special waste incineration plant

## 14. Transport information

<b>ADR</b>	not restricted
<b>ADNR</b>	not restricted
<b>RID</b>	not restricted
<b>IATA</b>	not restricted
<b>IMDG</b>	not restricted

## 15. Regulatory information

### Labelling in accordance with EC-Directives

hazard warning labelling compulsory

Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC).

### Hazard symbols

Xn Harmful

### Hazardous component(s) to be indicated on label

Sodium-2-ethylhexanoate

Methyl-1H-benzotriazole

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**R phrases**

63 Possible risk of harm to the unborn child.

**S phrases**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28.2 After contact with skin, wash immediately with water and soap.

37/39 Wear suitable gloves and eye/face protection.

**16. Other information**

**Text of the R-phrases which are allocated to the ingredients/components mentioned in section 2 of this Safety Data Sheet.**

20/22 Harmful by inhalation and if swallowed.

36 Irritating to eyes.

63 Possible risk of harm to the unborn child.

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.