

## 1 Identification of substance:

- **Product details:** 20ml unit
- **Trade Name:** Vernax G (REF 605066), Vernax S (REF 605065)
- **Manufacturer/Supplier:** Hager&Werken GmbH&Co.KG  
Ackerstraße 1  
47269 Duisburg  
Tel. +49 - 203 - 992690  
Fax: +49 - 203 - 299283
- **Informing department:** Abteilung Produktsicherheit
- **Emergency information:** Schweiz. Tox-Zentrum: Tel. 0041 – (0)1 / 251 51 51

## 2 Hazards identification

- **Hazards designation:** Highly flammable



Xn



F1

- **Information pertaining to particular dangers for man and environment:**  
Inhalation may produce organic disease.

## 3 Composition/information on ingredients:

- **Chemical characterisation**
- **Description:** Solvent, metal powder and bonding agent.

<b>CAS-NO.</b>	<b>Designation</b>
----------------	--------------------

000141-78-6	Ethylacetate
-------------	--------------

- Content : 20 - 80 % by weight
- Index. : F
- R-Phrases : 11

000108-88-3	Toluene
-------------	---------

- Content : 15 - 40 % by weight
- Index : F, Xn
- R-Phrases : 11-20

## 4 First aid measures

- **After inhalation:** Fresh air; keep respiratory tract clear. Obtain medical attention if required.
- **After skin contact:** Wash affected area with soap and water.
- **After eye contact:** Flush open eyes with copious water. Obtain medical attention.
- **Contamination of clothing:** Contaminated clothing are to be changed immediately.
- **After ingestion:**  
Rinse mouth properly and drink plenty of water together with active carbon. Do not induce vomiting. Obtain medical attention.

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
Waterfog, foam, carbon dioxide, dry chemical.
- **Unsuitable extinguishing agents:**  
Water jet

**Trade Name: Vernax G (REF 605066), Vernax S (REF 605065)**

**6 Accidental release measures:**

- **Person-related safety precautions:** Provide for efficient ventilation.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system.
- **Measures for cleaning/collecting:**  
In case of spilling or leaking of small amounts sweep up with absorbent material (such as sal binding powder); store separately in tightly sealed containers and dispose in sanitary landfill.

**7 Handling and storage**

- **Handling:**
- **Information for safety handling:**  
Provide for efficient ventilation respectively for local exhaust at the workplace.  
Damps are heavier-than-air.
- **Information about protection against explosions and fires:**  
Damps and fogs together with air can form explosive mixtures.  
Store away from annealing materials. Take precautionary measures against static discharges.
- **Storage:**
- **Requirements to be met by storerooms and containers:**  
Keep containers tightly closed in a cool and well ventilated place.
- **Information about storage in one common storage facility:** none

**8 Exposure controls and personal protection**

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

**CAS-NO.            Designation of material**

000141-78-6    Ethylacetate

**MAK:** 94 - 1400 mg/m<sup>3</sup>

**Classification acc. TRGS :**

**Spitzen-Kategorie            :** I

000108-88-3    Toluene

**MAK:** 94 - 190 mg/m<sup>3</sup>

**Classification acc. TRGS :**

**Spitzen-Kategorie            :** II,2

- **Personal protective equipment:**
- **Breathing equipment:** In case of damage use breathing protection, filter A.
- **Protection of hands:** Protective Gloves
- **Eye protection:** Safety glasses
- **General protective and hygienic measures:**  
Take off immediately contaminated clothing. Preventive protection of the skin is required.  
Wash hands when work is finished.

**Trade Name: Vernax G (REF 605066), Vernax S (REF 605065)**

**9 Physical and chemical properties**

- **Form:** Fluid
- **Colour:** silver- or gold-coloured
- **Odour:** characteristic

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
· <b>Change in condition:</b>			
· <b>Melting point/Melting range:</b>	77,1°	C	
· <b>Flash point:</b>	- 83°	C	
· <b>Self-inflammability:</b>	430°	C	
· <b>Danger of explosion:</b>	2,1 - 11,5	% by volume	
· <b>Vapour pressure:</b> at 20° C	50	mbar	
· <b>Density:</b> at 20° C	0.93	g/cm3	
· <b>Solubility in/Miscibility with:</b> Water at 20° C	partly soluble		
· <b>Additional information:</b> Other form:	Visc. data are applicable to Ethylacetate.		

**10 Stability and reactivity**

- **Dangerous reactions and products of decomposition:**  
No reactions if used according to specifications.

**11 Toxicological information**

- **Toxicological examinations:**
- **Primary irritant effect:**
- **After inhalation:**  
Irritation of the mucous membranes and anaesthetic effect associated with high concentration of the product.
- **On the skin:**  
Prolonged exposure in contact with the skin may produce Dermatitis by degreasing.
- **On the eye:**
- **After ingestion:** Nausea with vomiting. Danger of inhalation.

**12 Ecological information**

- **Toxic effect on the environment:**
- **Valuation:**
- **Valuation:**
- **Valuation:**
- **General notes:**  
Do not allow product to reach sewage system. Possible risks of effect on fish is not to be excluded.

**Trade Name: Vernax G (REF 605066), Vernax S (REF 605065)**

**13 Disposal considerations**

- **Product:**
- **Recommendation:**  
Disposal must be made according to official regulations.

**14 Transport information**

- **Land transport:** ADR/RID/GGVS/GGVE
- **Class:** 3                      **Number/Letter:** 3b                      Gef.-Nr.: 33
- **Additional information:**  
RID Class/Number: 3/3b
- **Inland shipping trans.:** ADN/ADNR
- **Class:** 3                      **Number/Letter:** 3
- **Ocean shipping trans.:** IMDG/GGVSee
- **Class:** 3.2
- **Air transport:** ICAO/IATA
- **Class:** 3                      **UN/ID-Nr.:** 2924                      **PG:** I

**15 Regulatory information**

- **Designation**
- **Designation according to:** EC guidelines
- **Ident. letter/Hazards designation:** F Flammable
- **Ident. letter/Hazards designation:** Xn low toxic rate
- **R-Phrases** :
- **R11** : Highly flammable
- **R20** : Harmful by inhalation
- **National Regulations** :
- **VbF:** A I                      **WGK:** 1

**16 Other information**

- The information contained herein describe exclusively the safety requirements of the product and are based on our present knowledge. However, they shall not constitute a guarantee for any product features and shall not establish a legally valid contractual relationship.