

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

### 1.1 Identification of the substance/preparation:

Commercial Product Name: WKT-Primer P1

### 1.2 Company / undertaking identification:

Manufacturer / distributor: Paul Pietzschke, Chem. Techn. Fabrik

Street / P.O. Box: Tarpen 13

State / postal code / City: D 22419 Hamburg

Telephone: + 49-40-527 38 41

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## 2. Composition / information on ingredients

### 2.2 Chemical characterization (preparation):

Description: silanes and siloxanes with functional groups + auxiliary products in solvents

Substances presenting a health hazard:

CAS-No.	Designation					EC/R:
000067-64-1	Acetone	<	50	%	F	11
000108-88-3	Toluene	<	20	%	F Xn	11-20
000123-54-6	2,4 Pentanedione	<	10	%		
000078-10-4	Tetraethyl silicate	<	10	%	Xn	10-20-36/37

## 3. Hazard identification

### 3.1 Critical hazards to man and environment:

EC/R: 11

Highly inflammable. Harmful by inhalation

## 4. First-aid measures

### 4.1 General information:

-

### 4.2 After inhalation:

Move to fresh air. Keep the victim laying down and restful. If breathing has stopped, give artificial respiration. Seek medical advice and clearly identify the substance.

### 4.3 After contact with the skin:

Wash with plenty of water or soap and water. Immediately remove all contaminated clothing.

### 4.4 After contact with the eyes:

Rinse immediately with plenty of water for 10-15 minutes and seek medical advice.

### 4.5 After swallowing:

Seek medical advice and clearly identify the substance. Do not induce vomiting. Danger of aspiration.

## 5. Fire fighting measures

### 5.0 General information:

-

### 5.1 Suitable extinguishing media:

dry powder, alcohol resistant foam, carbon dioxide, dry sand

### 5.2 Extinguishing media which must not be used for safety reasons:

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

### 5.4 Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air.

## 6. Accidental release measures

- 6.0 General information:
- 6.1 Personal precautions:  
Keep unprotected persons away. Wear personal protective suit (see section 8.3)
- 6.2 Environmental precautions:  
Do not introduce into sewer system or in-shore waters. Observe local by-laws.
- 6.3 Methods for cleaning up:  
Absorb mechanically and dispose of according to regulations. Absorb with a liquid binding material such as diatomaceous earth and dispose of according to regulations.
- 6.4 Further information:  
Keep away from sources of ignition.

## 7. Handling and storage

- 7.1 Handling:  
Precautions for safe handling: Ensure adequate ventilation.  
Precautions against fire and explosion: Cool endangered container with water. Forms explosive mixture with air, also in empty, uncleaned containers.
- 7.2 Storage:  
Conditions for storing rooms and vessels:  
Advice for storage of incompatible materials:  
Further information for storage: Store in a dry and cool place. Keep container tightly closed. Protect against moisture. Protect against sun. Do not store above + 40 °C.

## 8. Exposure controls / personal protection

- 8.1 Further information for system design and engineering measures:  
Observe information in section 7.
- 8.2 Associate substances with specific control parameters such as limit values:
- | CAS-Nr.     | Substance           | mg/m <sup>3</sup> | ppm | F/G | fibre/m <sup>3</sup> |
|-------------|---------------------|-------------------|-----|-----|----------------------|
| 000078-10-4 | Tetraethyl silicate | 85                |     |     |                      |
| 000108-88-3 | Toluene             | 375               |     |     |                      |
| 000067-64-1 | Aceton              | 2400              |     |     |                      |
- 8.3 Personal protection equipment:  
General protection and hygiene measures:  
Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating  
Respiratory protection .....: gasmask filter A during prolonged exposure.  
Hand protection .....: nitril rubber protective gloves, rubber gloves  
Eye protection .....: protective goggles giving full protection.

## 9. Physical and chemical properties

- 9.1 Appearance:
- |               |          |
|---------------|----------|
| Form. ....:   | liquid   |
| Colour: ..... | orange   |
| Odour: .....  | pleasant |
- 9.2 Safety parameters:..... Method (67/548/EEC)
- Change in physical state:
- |                     |                |             |
|---------------------|----------------|-------------|
| Melting point ..... | -50 °C         |             |
| Boiling Point ..... | 56 °C          | at 1013 hPa |
| Flash point .....   | approx. -16 °C |             |
- Inflammability.....:
- |                            |                |
|----------------------------|----------------|
| Ignition temperature ..... | approx. 520 °C |
| Autoinflammability .....   | °C             |

Oxidizing properties.....:			
Explosive properties .....			
Vapour pressure .....	< 233 hPa	at 20 °C	
Density.....:	0.9 g/cm <sup>3</sup>	at 20 °C	
Solubility in water.....:			
pH-value.....:	omitted	at °C	g/l H <sub>2</sub> O
Partition coefficient octanol/Water:			
Viscosity .....	3	mPa.s	bei °C
9.3 Further information:			
Thermal decomposition.....:	omitted		

## **10. Stability and reactivity**

### 10.0 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

### 10.1 Conditions to avoid:

### 10.2 Materials to avoid:

Reacts with water, bases and acids to form ethanol.

### 10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known.

## **11. Toxicological information**

### 11.0 General information:

Product not investigated.

### 11.1 Acute toxicity:

No data known.

### 11.4 Further toxicological information:

Aerosol mist must not be inhaled, as lung damage can be expected. Alkoxysilanes: according to literature: Harmful by inhalation. Organic solvents: Toluene (000108-88-3) irritates the mucous membranes, slightly irritates the skin and is narcotic. If the lung tissue is directly affected, inflammation of the lung may occur. Kidney and bone marrow damage were described. Acetone (000067-64-1) according to literature damages horny skin and irritates slightly skin, degrades skin and is narcotic.

## **12. Ecological information**

### 12.1 Information on elimination (persistence and degradability):

No data known.

### 12.2 Behaviour in environmental compartments:

No data known.

### 12.3 Ecotoxicological effects:

Effects in sewage treatment plants (bacteria toxicity: respiration/reproduction inhibition):  
Do not introduce larger amounts into purification plants.

### 12.4 Further ecological information:

Do not lead into waste water. Do not introduce into in-shore waters.



## 15. Regulatory information

### 15.1 Identification according to EEC directives:

Identification letter and hazard indication of product:

F Xn / Highly inflammable Harmful

contains hazardous component(s) for labelling:

Toluene F Xn 11-20

EEC/R: 11

Highly inflammable.

EEC/S: 7/9-16-29-33-43

Keep container in a well ventilated place. Keep away from sources of ignition. No smoking. Avoid contact with eyes. Do not empty into drains. Keep precautionary measures against static discharges.

### 15.2 National regulations:

SI 1993/1746 .....: CHIP Regulations 1993

SI 1988/1657 .....: COSHH Regulations 1988

SI 1992/2051 .....: Management of Health and Safety at Work Regulations 1992

Health and Safety at Work act 1974

Environmental Protection Act 1990 and Subsidiary Regulations

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control

## Other information:

n.a. = not applicable      n.s. = no subject to

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of legal warranty regulations. Properties of the product are to be found in the respective product leaflet.