

according to Regulation (EC) No 1907/2006			
Silicon, 25 g			
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SECTION 1: Identification of the	e substance/mixture and of the company	//undertaking	
1.1. Product identifier			
Silicon, 25 g			
CAS No:	7440-21-3		
EC No:	231-130-8		
	e substance or mixture and uses advised aga	ainst	
Use of the substance/mixture			
Laboratory chemica			
1.3. Details of the supplier of the s	afety data sneet		
Seller	CONATEX-DIDACTIC Lehrmittel GmbH		
Company name:			
Street:	Im Forstgarten 1		
Place:	D-66459 Kirkel		
Internet:	www.conatex.com		
Supplier			
Company name:	Carbolution Chemicals GmbH		
Street:	Im Stadtwald, Gebäude A1.2		
Place:	D-66123 Saarbrücken		
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232	
e-mail:	michael.bauer@carbolution-chemicals.de		
Internet:	www.carbolution-chemicals.de		
1.4. Emergency telephone number:	+49 (0)681 302-71232		
SECTION 2: Hazards identificat	ion		
-	<u>e or mixture</u> ective 67/548/EEC or 1999/45/EC er: F - Highly flammable		
Classification according to Reg Hazard categories: Flammable solid: Fl Hazard Statements Flammable solid.			
2.2. Label elements			
Signal word:	Warning		
Pictograms:	GHS02		
Hazard statements			

H228

Flammable solid.



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Precautionary stateme	ents		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P240	Ground/bond container and receiving equipment.		
P241	Use explosion-proof electrical/ventilating/lighting equipment.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P370+P378	In case of fire: Use Dry sand. Extinguishing powder. to extinguish.		

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Sum formula:	Si
Molecular weight:	28,09

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
231-130-8	Silicon	100 %
7440-21-3	F - Highly flammable R11	
	Flam. Sol. 2; H228	

Full text of R-, H- and EUH-phrases: see section 16.

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Change contaminated clothing.

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

## 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

## 5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.



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#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Avoid generation of dust. Do not breathe

gas/fumes/vapour/spray. Provide adequate ventilation. Remove persons to safety. Do not breathe dust.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

## 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7440-21-3	Silicon, respirable dust	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### 8.2. Exposure controls

#### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

#### Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

### Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

#### **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).



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## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state:solidColour:Vo data availableOdour:No data available

		Test method
pH-Value:	No data available	
Changes in the physical state		
Melting point:	1410 °C	
Initial boiling point and boiling range:	2355 °C	
Sublimation point:	No data available	
Softening point:	No data available	
Flash point:	No data available	
Flammability		
Solid:	No data available	
Gas:	No data available	
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Ignition temperature:	No data available	
Auto-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density:	No data available	
Water solubility:	No data available	
Partition coefficient:	No data available	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Flow time:	No data available	
Vapour density:	No data available	
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
9.2. Other information		
Solid content:	No data available	

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

## 10.3. Possibility of hazardous reactions

No data available



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#### 10.4. Conditions to avoid

No data available

## 10.5. Incompatible materials

Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

No data available

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

Toxicological data are not available.

#### Acute toxicity

Toxicological data are not available.

#### Irritation and corrosivity

No data available

Sensitising effects

No data available

#### Severe effects after repeated or prolonged exposure

No data available

#### Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

### Specific effects in experiment on an animal

No data available

#### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### Practical experience

### **Observations relevant to classification**

No data available

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

## 12.6. Other adverse effects

No data available

#### **Further information**

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).



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## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

## Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

## Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN1346
14.2. UN proper shipping name:	SILICON POWDER, AMORPHOUS
14.3. Transport hazard class(es):	4.1
14.4. Packing group:	III
Hazard label:	4.1
Classification code:	F3
Special Provisions:	32
Limited quantity:	5 kg
Transport category:	3
Hazard No:	40
Tunnel restriction code:	E
Other applicable information (land transp	port)
E1	
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN1346
14.2. UN proper shipping name:	SILICON POWDER, AMORPHOUS
<u>14.3. Transport hazard class(es):</u>	4.1
14.4. Packing group:	III
Hazard label:	4.1
Classification code:	F3
Special Provisions:	32
Limited quantity:	5 kg



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Other applicable information (inland water E1	terways transport)	
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN1346	
14.2. UN proper shipping name:	SILICON POWDER, AMORPHOUS	
14.3. Transport hazard class(es):	4.1	
14.4. Packing group:	III	
Hazard label:	4.1	
Special Provisions:	32	
Limited quantity: EmS:	5 kg F-A, S-G	
Other applicable information (marine tr		
E1 Air transport (ICAO)		
<u>14.1. UN number:</u>	UN1346	
14.2. UN proper shipping name:	SILICON POWDER, AMORPHOUS	
<u>14.3. Transport hazard class(es):</u>	4.1	
14.4. Packing group:		
Hazard label:	4.1	
Special Provisions:	A54	
Limited quantity Passenger:	10 kg	
IATA-packing instructions - Passenger:	446	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	25 kg 449	
IATA-packing instituctions - Cargo:	100 kg	
Other applicable information (air trans	ort)	
E1		
: Y443		
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	no	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance of	or mixture
EU regulatory information		
Additional information		
	to Regulation (EC) No. 1907/2006 (REACH)	
National regulatory information	(10 10 galaxier (20) 10: 100 / 2000 (12 / 01)	
Water contaminating class (D):	3 - highly water contaminating	
SECTION 16: Other information		
	- 4	
Relevant R-phrases (Number and full to 11 Highly flammable.	xtj	
Relevant H- and EUH-phrases (Number	and full text)	
H228 Flammable s		