

Safety Data Sheet PGBLK02

Date of issue: 06/01/2015 Revision date: 04/06/2018 Version: 1.1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture
Physical state : Liquid

Product name : BLACK PIGMENT (CONDUCTIVE), 45% IN SILICONE OIL

Product code : PGBLK02

Synonyms : BLACK PIGMENT DISPERSION in POLY(DIMETHYLSILOXANE), VINYL TERMINATED

Chemical family : ORGANOSILOXANE

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

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### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other hazards

No additional information available

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Monovinyl terminated polydimethylsiloxane	(CAS-No.) 68951-99-5	> 70	Not classified
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9;435-640-3	> 20	Not classified

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

#### **Description of first aid measures**

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical

advice.

First-aid measures after skin contact : Wash with plenty of water/....

First-aid measures after eye contact Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : No information available. Symptoms/effects after skin contact : May cause skin irritation. Symptoms/effects after eye contact : May cause eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

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

No additional information available

### **SECTION 5: Firefighting measures**

#### **Extinguishing media** 5.1.

: Water spray. Water fog. Foam. Carbon dioxide. Dry chemical. Suitable extinguishing media

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

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

#### Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid all eye and skin contact and do not breathe vapour and mist.

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

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

#### 6.1.1. For non-emergency personnel

: Evacuate unnecessary personnel. **Emergency procedures** 

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and material for containment and cleaning up

: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or Methods for cleaning up

shovel spills into appropriate container for disposal.

### Reference to other sections

See Heading 8. Exposure controls and personal protection.

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

### **Precautions for safe handling**

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wash contaminated clothing before reuse.

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

Storage conditions : Keep container tightly closed.

Incompatible materials : Acids. Metal salts. Oxidizing agent. Precious metals. Storage area : Store in a well-ventilated place. Store away from heat.

### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Carbon black (1333-86-4)			
Belgium	Limit value (mg/m³)	3.5 mg/m³	
France	VME (mg/m³)	3.5 mg/m³	
Greece	OEL TWA (mg/m³)	3.5 mg/m³	
Greece	OEL STEL (mg/m³)	7 mg/m³	
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (inhalable fraction)	
USA IDLH	US IDLH (mg/m³)	1750 mg/m³	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m³	
Spain	VLA-ED (mg/m³)	3.5 mg/m³	
United Kingdom	WEL TWA (mg/m³)	3.5 mg/m³	
United Kingdom	WEL STEL (mg/m³)	7 mg/m³	
Czech Republic	Expoziční limity (PEL) (mg/m³)	2 mg/m³ (dust)	
Denmark	Grænseværdie (langvarig) (mg/m³)	3.5 mg/m³	
Finland	HTP-arvo (8h) (mg/m³)	3.5 mg/m³	
Finland	HTP-arvo (15 min)	7 mg/m³	
Ireland	OEL (8 hours ref) (mg/m³)	3.5 mg/m³	
Ireland	OEL (15 min ref) (mg/m3)	7 mg/m <sup>3</sup>	
Norway	Grenseverdier (AN) (mg/m³)	3.5 mg/m³	
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	3.5 mg/m³	
Poland	NDS (mg/m³)	4 mg/m³ (applies to carbon black containing Benzo(a)pyrene < 35 mg in 1 kg of carbon black-total inhalable dust)	
Slovakia	NPHV (priemerná) (mg/m³)	2 mg/m³ (respirable fraction, 5% or less fibrogenic component) 10 mg/m³ (respirable fraction, greater than 5% fibrogenic component) 10 mg/m³ (total aerosol)	
Sweden	nivågränsvärde (NVG) (mg/m³)	3 mg/m³ (total dust)	
Canada (Quebec)	VEMP (mg/m³)	3.5 mg/m³	
Australia	TWA (mg/m³)	3 mg/m³	
Portugal	OEL TWA (mg/m³)	3.5 mg/m³	
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen	

## 8.2. Exposure controls

### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

### Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### Hand protection:

Neoprene or nitrile rubber gloves

### Eye protection:

Safety glasses. Contact lenses should not be worn

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### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

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

### 9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Liquid. Paste.Colour: Black.

Odour : No data available
Odour threshold : No data available

Refractive index : No additional information available

pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : < -60 °C

Freezing point : No data available

Boiling point : > 205 °C Flash point : > 110 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available

Relative density :  $\sim 1$  % Volatiles : < 5 %

Solubility Insoluble in water. No data available Log Pow No data available Log Kow Viscosity, kinematic No data available Viscosity, dynamic No data available No data available Explosive properties : No data available Oxidising properties **Explosive limits** : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable in sealed containers stored under a dry inert atmosphere.

### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Acids. Metal salts. Oxidizing agent. Precious metals.

### 10.6. Hazardous decomposition products

Organic acid vapors. Silicon dioxide.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

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> 15400 mg/kg

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Carbon black (1333-86-4)		
LD50 oral rat		

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

### Carbon black (1333-86-4)

IARC group 2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

Symptoms/effects after inhalation : No information available.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

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

### 12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

#### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Landfill. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

### 14.1. UN number

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

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### 14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

**RID** 

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

### - Overland transport

No data available

### - Transport by sea

No data available

### - Air transport

No data available

### - Inland waterway transport

No data available

### - Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

Contains no REACH Annex XIV substances

% Volatiles : < 5 %

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#### 15.1.2. National regulations

### Germany

Reference to AwSV

: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV,

Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

None of the components are listedNone of the components are listed

: None of the components are listed

: None of the components are listed

: None of the components are listed

#### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

#### Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information

: Prepared by safety and environmental affairs.

### SDS EU (REACH Annex II) - Custom

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