

## SAFETY DATA SHEET CARBON BLACK PREPARATION

according to Regulation (EC) No. 1907/2006

### SolidFlow **PBk7 Carbon Black** - Product code **SF 946-X**

Date of Revision: October 10<sup>th</sup> 2024    Revision N:1    Country /Language: ITA / EN

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

##### 1.1. Product identifier

Trade name:	Carbon black pigment preparation
Product code:	SF 946-X
CAS number:	1333-86-4
INDEX number:	CI Pigment Black 7
EEC (EINECS) number:	215-609-9
Structural Formula:	C
Note:	This substance/ mixture contains nanoforms.

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

Use of the Substance/Mixture:	Synthetic iron oxide mixed with anionic and non-ionic surfactants
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##### 1.3. Details of the supplier of the safety data sheet

Company	<b>SIOF S.p.A.</b> Via Garibaldi 62 15068 - Pozzolo Formigaro (AL) Italy Tel: +39 0143417781 VAT nr.: IT 0016470069 Production sites: 1) Pozzolo Formigaro (AL) - Via Garibaldi 62 2) Verona - Via Pisano 53/A
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Email address of the competent person:

siof@siof.it

##### 1.4. Emergency telephone number

Emergency telephone number:	+39 0143417781
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Classification according to EC Regulation 1272/2008

Void.

##### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

Void.

Hazard Hazard statements:

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3- one [EC no. 247-500-7] and 2- methyl-2H isothiazol-3-one [EC no. 220- 239-6] (3: 1). May produce an allergic reaction.  
EUH210 Safety data sheet available on request.

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**2.3. Other hazards**

Possible dust explosion hazard.

**Results of PBT and vPvB assessment:**





This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Determination of endocrine-disrupting properties:**

The substance/mixture does not contain any constituents listed under REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in endocrine disrupting properties in quantities of 0.1% or more exhibit.

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

**3.2 Mixtures**

Components:		
CAS: 1333-86-4 EINECS: 215-609-9	Carbon Black, Pigment Black 7 Not classified	
CAS: 55965-84-9 EINECS: 247-500-7 and 220-239-6	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2- methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)   Skin Corr. 1C - H314, Eye Dam. 1 - H318   Acute Tox. 3 - H301, Acute Tox. 2 - H310, Acute Tox. 2 - H330;   Skin Sens. 1A - H317;   Aquatic Acute 1 - H400 (M=100), Aquatic Chronic 1 - H410 (M=100);	< 0,0015%
	Skin Corr. 1C; H314: C >= 0,6 %, Skin Irrit. 2; H315: 0,06 <= C < 0,6 %, Eye Dam. 1; H318: C >= 0,6 %, Eye Irrit. 2; H319: 0,06 <= C < 0,6 %, Skin Sens. 1A; H317: C >= 0,0015 %	

**Components:**

**Name:** Carbon black  
**EEC( EINECS) number:** 215-609-9  
**CAS number:** 1333-86-4

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**Name:** reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2- methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  
**EEC( EINECS) number:** 247-500-7 and 220-239-6  
**CAS number:** 55965-84-9

**Other components:**

**Name:** Anionic and non-ionic additives.

This substance/mixture contains nanoforms. As a precautionary measure, the D10 of the pigmentary preparation may be considered to approach the size of the primary particle. The nanoforms pertain to the pigment as a single component.

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

**General information:** Immediately remove any clothing soiled by the product.  
**After inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Immediately rinse with water.  
If skin irritation continues, consult a doctor.  
**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
**After swallowing:** If symptoms persist consult doctor.

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

**Symptoms:** No further relevant information available.

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

**Treatment:** No further relevant information available.

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:**  
Water with full jet.

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

No further relevant information available.

##### 5.3 Advice for firefighters

**Protective equipment:** Wear self-contained respiratory protective device.

#### SECTION 6: Accidental release measures

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

Avoid formation of dust.  
Wear protective clothing.

##### 6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

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**6.3 Methods and material for containment and cleaning up**

Pick up mechanically.

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**6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Provide suction extractors if dust is formed.

Wash hands before eating, drinking or smoking. Do not eat, drink or smoke when using.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

Dust can combine with air to form an explosive mixture.

Dust explosion class: St1 (VDI 2263) Ignition energy: >1 kJ

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**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Keep container tightly closed.

**Information about storage in one common storage facility:**

Not required.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in dry conditions.

Before entering enclosed containers and confined spaces containing carbon black, test for adequate oxygen, flammable gases, and potentially toxic air contaminants (e.g. CO). Follow standard safety practices when entering enclosed or confined spaces.

**Storage class:**

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**7.3 Specific end use(s)**

No further relevant information available.

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

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

1333-86-4 Carbon black

**AGW (D)**

**Long-term value**

0,5\*

mg/m<sup>3</sup>

\*Nanoform, alveolengängige Fraktion TRGS527

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**DNELs**

**1333-86-4**

**Carbon black**

Inhalative, DNEL: 0,5\*2\*\* mg/m<sup>3</sup> (human being) (\*systemic, \*\*local)

**Additional information:**

The lists valid during the making were used as basis.

**Predicted No-Effect Concentration PNEC):**

**Additional Information:**

The lists valid during the making were used as basis

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**8.2 Exposure controls**

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection:**

Safety glasses.

**Body protection:**

Protective work clothing.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Granules
<b>Physical state:</b>	Solid
<b>Colour:</b>	Black
<b>Odour:</b>	Characteristic
<b>Solubility:</b>	Insoluble in water. It disperses.
<b>Density:</b>	1,8 kg/l (pigment)
<b>Bulk density:</b>	0.8 - 1.2 kg/l
<b>Decomposition temperature:</b>	No data available
<b>Flammability:</b>	Not applicable
<b>Evaluation:</b>	The substance/mixture may contain nano forms

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**9.2 Other information**

No further information available.

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No further relevant information available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (see Section 7).

**10.3 Possibility of hazardous reactions**

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

**10.4 Conditions to avoid**

No further relevant information available.

**10.5 Incompatible materials**

No further relevant information available.

**10.6 Hazardous decomposition products**

No dangerous decomposition products known.

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity:** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**

1333-86-4 Carbon black

**Oral, LD50:** >8000 mg/kg (rat)

**Oral, NOEL:** 52 mg/kg (rat) (2d)

**Oral, NOEL:** 137 mg/kg (mouse) (2d)

**Primary effects:**

**Skin corrosion/irritation:** No irritant effect.

**Serious eye damage/irritation:** No irritating effect.

**Respiratory or skin sensitisation:** No sensitising effects known.

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Reproductive toxicity:** Based on available data, the classification criteria are not met.

**STOT-single exposure:** Based on available data, the classification criteria are not met.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** Based on available data, the classification criteria are not met.

**Other information (about experimental toxicology):**

Carbon black cannot as such (insoluble inorganic compound) be tested in bacterial and other in-vitro systems.

Organic solvent extracts of carbon black can however contain traces of polycyclic aromatic hydrocarbons (PAH).

These can cause negative and positive test results in different in-vitro test systems. A DMSO suspension of carbon black produced negative results in an Ames test.

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**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

There is still an ongoing scientific discussion on the relevance of tumorigenic response in rats to inorganic insoluble particles like carbon black. According to many inhalation toxicologists the tumour response observed in the rat studies is species specific.

It does not correlate to human exposure. However, the IARC evaluation in Monograph 65 concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black". In humans there is inadequate evidence for carcinogenicity of carbon black according to IARC. Based on IARC's system of evaluation its overall evaluation for carbon black is that it is "possible carcinogenic to humans" (group 2B).

Repeated dose toxicity:

Subchronic toxicity rat, inhalative, duration: 90 days Target organ/effect: lungs/inflammation, hyperplasia, fibrosis NOEL = 0,0011mg/l, literature

Chronic toxicity / Carcinogenic effect rat and mouse, inhalative, duration: 2 years Target organ / effect: lungs / inflammation, fibrosis, tumours exposure under overload conditions (Overload Effect) effect on rats specific to species, literature

Carcinogenic effect rat, oral (feeding experiments), duration: 2 years no tumours, literature mouse, oral

(feeding experiments), duration: 2 years no tumours, literature mouse, dermal, duration: 12 - 18 months Target organ / effect: skin / no tumours (literature)

**CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):**

IARC (International Agency for Research on Cancer, USA) classified Carbon Black in Group 2B. Overall, as a result of extensive epidemiological studies, no causal relationship has been demonstrated between exposure to carbon black and cancer risk in humans.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

The substance/mixture does not contain any constituents listed under REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in endocrine disrupting properties in quantities of 0.1% or more exhibit.

**SECTION 12: Ecological information**

**12.1 Aquatic Toxicity:**

	1333-86-4	Carbon black
<b>LC<sub>0</sub>:</b>	>5000 mg/l (fish) (14d / DIN 38412 part 15)	
<b>EC<sub>10</sub>:</b>	800 mg/l (activated sludge) (3h/DEV L3 (TTC-Test))	
<b>EC<sub>50/72h</sub>:</b>	>10000 mg/l (alga) (OECD 201)	
<b>EC<sub>50</sub>:</b>	>5600 mg/l (daphnie) (24h/OECD 201)	
<b>NOEC/3d:</b>	>10000 mg/l (alga) (OECD201)	
<b>EC<sub>0/3h</sub>:</b>	>400 mg/l (activated sludge) (DEV L3 (TTC-Test))	
<b>LC<sub>0/96h</sub>:</b>	1000 mg/l (fish) (OECD 203)	

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<b>LC50/96h:</b>	0,22 mg/l (fish) (OECD 203)
<b>NOEC/21d:</b>	0,004 mg/l (daphnie) (OECD 211)
<b>NOEC/28d:</b>	0,098 mg/l (fish) (OECD 210)
<b>NOEC:</b>	0,0012 mg/l (72h) (OECD 201)
<b>EC50/72h:</b>	0,048 mg/l (OECD 201)
<b>EC50/3h:</b>	7,92 mg/l (OECD 209)
<b>EC50/48h:</b>	0,1 mg/l (daphnie) (OECD 202)

**12.2 Persistence and degradability**

No further relevant information available.

**12.3 Bioaccumulative potential**

No further relevant information available.

**12.4 Mobility in soil**

No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 2.

**12.7 Other Adverse Effects**

No further relevant information available.

**Additional ecological information:**

**General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation:** Disposal must be made according to official regulations.  
Do not allow product to reach ground water, water course or sewage system.

**Uncleaned packaging:**

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

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

**ADR:** Void

**IMDG:** Void

**IATA:** Void



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**14.2 UN proper shipping name**

ADR: Void

IMDG: Void

IATA: Void

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**14.3 Transport hazard class(es)**

ADR

Class: Void

IMDG

Class: Void

IATA

Class: Void

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**14.4 Packing group**

ADR: Void

IMDG: Void

IATA: Void

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**14.5 Environmental hazards**

Not applicable.

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**14.6 Special precautions for user**

Not applicable.

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**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

Transport/Additional information: Not applicable.

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**SECTION 15: Regulatory information**

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

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

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**15.2. Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this product.

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**15.3 Further Information**

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

<b>Issued by:</b>	Responsible for Health, Safety, and Environment
<b>Issue date:</b>	October 10 <sup>th</sup> , 2024
<b>Revision N:</b>	1

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**More information:**

This safety data sheet is drawn up in compliance with in force the regulations in classification and labeling matter on the revision date indicated in the header. The information provided on this SAFETY DATA SHEET corresponds to the state of our knowledge and knowledge our experience of the product, and it is not exhaustive.

It applies to the product as is, compliant with specifications. In case of combinations or mixtures, make sure that no new danger can arise. In no case does it exempt the user of the product from complying with all legislative provisions, administrative and regulatory issues relating to the product, hygiene and safety at work.