

# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006

**GSGC Black VN 4301 DRM50KG**

**HVN430170**

specification	2032309	Revision date	25.03.2008
Version	2.0	Print Date	24.09.2009
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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product information

material No.	:	<b>1065970</b>
Trade name	:	<b>HVN430170</b> GSGC Black VN 4301 DRM50KG
Company	:	Ferro Couleurs France S.A. Color & Glass Performance Materials 2, avenue du Président Kennedy 87000 Limoges Cedex
Telephone	:	+33 5 55 31 50 50
Telefax	:	+33 5 55 31 50 75
Emergency telephone	:	ORFILA : +33 (0)1 45 42 59 59
E-mail address	:	fdslimoges@ferro.com
Use of the Substance/Preparation	:	Manufacture of ceramic coatings and decorating preparations suited for firing, for glass and ceramics.

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## 2. HAZARDS IDENTIFICATION

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature

Product contains:  
glass/frit  
inorganic pigment

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## 4. FIRST AID MEASURES

### General advice

Remove contaminated or saturated clothing.

### Inhalation

Take affected persons out into the fresh air.

### Skin contact

Wash with water and soap as a precaution.

### Eye contact

Immediately flush eye(s) with plenty of water.

### Ingestion

If symptoms persist, call a physician.

### Notes to physician

No own experience available.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

The product itself does not burn.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Extinguishing media which shall not be used for safety reasons

none known

### Specific hazards during fire fighting

none known

### Special protective equipment for fire-fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Ensure adequate ventilation.

Avoid dust formation.

Wear personal protective equipment; see section 8.

### Environmental precautions

Try to prevent the material from entering drains or water courses.

### Methods for cleaning up

Pick up mechanically and collect in a suitable container. Avoid formation of dust.

### Additional advice

Dispose of contaminated material as waste in accordance with section 13.

## 7. HANDLING AND STORAGE

### Handling

#### Safe handling advice

Avoid production of dust. Do not breathe dust.

No particular measures required if used correctly. Ensure there is good room ventilation.

#### Advice on protection against fire and explosion

No special protective measures against fire required.

### Storage

#### Requirements for storage areas and containers

No special storage conditions required.

#### Advice on common storage

No special restrictions on storage with other products.

#### German storage class

13 (Classification by producer in accordance with VCI scheme)

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

#### Other information

Contains no substances with occupational exposure limit values.

#### Engineering measures

Eventual aspiration in case of dusts. Technical protection measures have always priority over personal protection equipment.

#### Occupational exposure controls

#### Personal protective equipment

##### Respiratory protection

If occurs respirable dust: Dust mask with P1 particle filter.

##### Hand protection

recommended: suitable protective gloves e.g. nitrile-butadiene rubber (NBR) gloves

##### Eye protection

wear basket-shaped glasses or safety goggles with side-shields.

##### Skin and body protection

Safety shoes

##### Hygiene measures

General industrial hygiene practice.

##### Protective measures

No particular measures required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	powder
Colour	black
Odour	odourless

### Safety data

physical state	solid
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## 10. STABILITY AND REACTIVITY

Conditions to avoid No dangerous reaction known under conditions of normal use.

Materials to avoid none known

Hazardous decomposition products none known

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## 11. TOXICOLOGICAL INFORMATION

Skin irritation	May cause eye/skin irritation. Powder can cause localised skin irritation in folds of the skin or under tight clothing.
Eye irritation	Product dust may be irritating to eyes, skin and respiratory system.
Sensitisation	not known

No results of animal experiments with the product available.

### Acute oral toxicity

frits, chemicals	LD50 rat: > 2.000,00 mg/kg
Cu-Cr spinel black	LD50 rat: > 4.000,00 mg/kg

## 12. ECOLOGICAL INFORMATION

### Persistence and degradability

Biodegradability	The methods for determining biodegradability are not applicable to inorganic substances.
Physico-chemical removability	no data available

### Ecotoxicity effects

Specific information for this product is not available.

### Toxicity to fish

frits, chemicals	LC50 Fish: > 1.000,00 mg/l / 96 h
Cu-Cr spinel black	LC50 Fish: > 1.000,00 mg/l

### Toxicity to daphnia

frits, chemicals	EC50 Daphnia: > 100,00 mg/l / 48 h
Cu-Cr spinel black	EC50 Daphnia: > 1.000,00 mg/l

### Toxicity to algae

frits, chemicals	IC50 algae: > 1.000,00 mg/l / 72 h
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## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Uncleaned packaging

Dispose of as unused product.

If there is product residue in the emptied container, follow directions for handling on the container's label.

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**14. TRANSPORT INFORMATION****Further Information**

Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION****Labelling according to EC Directives**

statutory basis/list	1999/45/EC
Other data	Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.
<b>Major Accident Hazard Legislation</b>	96/82/EC listing: Update: 2003 Directive 96/82/EC does not apply

**National legislation (Germany)**

Water contaminating class (Germany) NWG not water endangering  
Update: VVVWS A4

TA Luft List (Germany)	<b>Class</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>
	organic	0,0 %	0,0 %	0,0 %	
	carcinogenic	0,0 %	0,0 %	0,0 %	
	inorganic-dust-like	0,0 %	0,0 %	13,0 %	
	inorganic-gaseous	0,0 %	0,0 %	0,0 %	0,0 %

**16. OTHER INFORMATION****Further information**

Data sheet producing department:  
Laboratoire de physique chimie Telephone: +33 (0)5 55 31 50 50

Changes since the last version will be highlighted in the margin. This version replaces all previous versions.

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