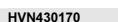
GSGC Black VN 4301 DRM50KG

according to Regulation (EC) No. 1907/2006



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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

material No. : 1065970

Trade name : **HVN430170**

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.

2. HAZARDS IDENTIFICATION

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Product contains:

glass/frit

inorganic pigment

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.

HVN430170

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

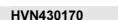
10. STABILITY AND REACTIVITY

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

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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 LD50 rat: > 4.000,00 mg/kgCu-Cr spinel black

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 LC50 Fish: > 1.000,00 mg/l Cu-Cr spinel black

Toxicity to daphnia

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

Toxicity to algae

frits, chemicals IC50 algae: > 1.000,00 mg/l / 72 h

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.

Major Accident Hazard 96/82/EC Update: 2003

Legislation listing: Directive 96/82/EC does not apply

National legislation (Germany)

Water contaminating class NWG not water endangering

(Germany) Update: VWVWS A4

TA Luft List (Germany) Class

IV Class Ш Ш 0,0 % organic 0.0 % 0.0 % carcinogenic 0,0 % 0,0 % 0,0 % 0.0 % 0.0 % 13,0 % inorganic-dust-like 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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.