

MATERIAL SAFETY DATA SHEET

according to 91/155/EU

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1. MATERIAL / PREPARATION AND COMPANY DESIGNATION

Data on product, commercial name

ARTIFICIAL GRAPHITE

includes all types of **ARTIFICIAL GRAPHITE** as grains, powders, electrodes, blocks, and profiles

Data on manufacturer / supplier

Manufacturer / supplier

NGS Naturgraphit GmbH

Street

Winner Str. 9

National ident / postcode

D-91227 Leinburg

Country

Fed. Rep. of Germany

Telephone

0049 9187 5278

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Emergency number

0049 9187 5278

2. COMPOSITION / DATA ON CONSTITUENTS

Artificial graphite mainly consists of highly purified crystallised carbon and in some grades of small admixtures of harmless minerals like SiC and sulphur compounds

3. POSSIBLE DANGERS

Health

slight danger in case of long-term contact and high concentrations

Inflammability

distinguishes when source of heat is removed

Chemical reactions

not applicable

4. FIRST AID MEASURES

Respiration

remove from accident site

Eyes

wash with cold water

Skin

wash with water and soap

Stomach pumping

not necessary

5. FIREFIGHTING MEASURES

Suitable extinguisher, foam extinguisher

no restrictions

Extinguishers which are unsuitable for safety reasons

none

6. MEASURES TO TAKE IN CASE OF UNINTENTIONAL RELEASE

Persons-related protective measures

see **4. FIRST AID MEASURES**

Graphite acts as a lubricant, therefore carefully sweep and vacuum the floor, in order to avoid the danger of accidents through slipping on the floor.

Environmental protection measures

not necessary

Cleaning procedure

normally sweeping and vacuuming

Use commercially available cleaning agents for wiping and washing

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7. HANDLING AND STORAGE

Handling avoid a build-up of dust as far as possible
 Storage warehouse and container requirements,
 store as dry as possible

Protective measures to take against electrical equipment:

Graphite conducts electricity, therefore, keep as far away as possible from electrical equipment and conductors.

8. EXPOSURE LIMITATION AND PERSONAL PROTECTIE EQUIPMENT

Avoid build-up of dust vacuum as often as reasonable
 Personal protective equipment
 Respiratory equipment use commercially available dust masks
 Protection of hands issue commercially available cotton or other protective gloves
 Protection of eyes in case of sensitivity distribute safety goggles
 Bodily protection protect the body from contamination by one-piece dust-proof overalls.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance
 Form lumps, grains, powders, micronised powders, blocks, rods, plates
 Colour silver-grey to black
 Odour normally none
 Change in state
 Boiling point / boiling range the melting and vapourisation temperature in the absence of oxygen is 3600 °C
 Flash point forms no flames, glows only
 Combustibility not applicable
 Ignition temperature about 600 ° C
 Self-combustibility not applicable
 Danger of explosion none
 Lower explosion threshold not applicable
 Upper explosion threshold not applicable
 Fire-causing characteristics none, it only glows
 Steam pressure not applicable
 Relative density about 2.0 to 2.3 g/cm³
 Bulk density about 0.2 to 1.9 g/cm³
 Solubility in water not applicable
 pH value neutral, about 7
 Distribution coefficient n-octanol/water none
 Other data none

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10. STABILITY AND REACTIVITY

Conditions to be avoided	fire and heat of above 450 ° C
Substances to be avoided	strongly oxidising substances such as fluorine, peroxide etc.
Dangerous decomposition products	carbon dioxide, carbon monoxide, and some sulphur dioxide.

11. TOXICOLOGY DATA

Artificial graphite is harmless in toxicological terms

12. ECOLOGY DATA

Artificial graphite is an inert and pure carbon product and does not harm the environment

13. DIRECTIONS REGARDING DISPOSAL

The local regulations are to be heeded. Since artificial graphite is a pure carbon product and it does not harm the environment there is normally no objection to it being disposed of in a tip.

14. DATA ON TRANSPORT

Land transport ADR/ RID and GGVS / GGVE	no specific regulations
Transport by river ADN / ADR	no specific regulations

15. STIPULATIONS

R - sets	none
S - sets	none

16. OTHER INFORMATION

This Material Safety Data Sheet is issued according to our best and newest knowledge but the given information should not be considered as a specification or any other binding data.