

MATERIAL SAFETY DATA SHEET

according to 91/155/EU

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1. MATERIAL / PREPARATION AND COMPANY DESIGNATION

Data on product, commercial name **NATURAL GRAPHITE**
 includes all grades of **FLAKE GRAPHITE** and **AMORPHOUS GRAPHITE**
 Data on manufacturer / supplier
 Manufacturer / supplier **GS Naturgraphit GmbH**
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2. COMPOSITION / DATA ON CONSTITUENTS

Natural graphite mainly consists of crystallised carbon and of small admixtures of natural rock constituents and minerals.

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 flakes, lumps, grains, powders, micronised powders, pellets
 Colour silvery – grey, grey – 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 2.2 g/cm
 Bulk density about 0.2 to 1.0 g/cm
 Solubility in water not applicable
 pH value 5 – 8
 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 400 ° 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

Natural graphite is harmless in toxicological terms

12. ECOLOGY DATA

Natural graphite is a pure natural product and does not harm the environment

13. DIRECTIONS REGARDING DISPOSAL

The local regulations are to be heeded. Since natural graphite is a pure natural 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.