

**Safety data Sheet**
**Product: Graphite Jointing Sheets Planigraph**

<b>1. INDICATIONS ON THE PRODUCT</b> This MSDS covers the products Graphite Jointing Sheets Planigraph and the related gaskets. These jointing sheets are manufactured with pure flexible graphite and assemble with metallic inserts (styles LGR, LGRF, LGRF2, LGRHDI, Metalbond, Metalbond2).  CAS-No. Unassigned Company CARRARA via provinciale 1E 25030 Adro- BS - Italy Telephone Nr. (+39) 030 7451121 telefax (+39) 030 7451130	
<b>Chemical name</b>	<b>CAS-No</b>
Flexible Graphite	7782-42-5
<b>3. HAZARDS IDENTIFICATION</b> <ul style="list-style-type: none"> <li>The solid carbon with high purity does not present evidences of danger for the human health nor for the environment, situations of aerodispersed powders are however to be avoided (situations not foreseen for the specific product).</li> <li>In case of fire the product releases CO, CO<sub>2</sub> trace of other oxides and gases.</li> </ul>	
<b>4. FIRST AID MEASURES</b> <ul style="list-style-type: none"> <li>Inhalation</li> </ul> Further to inhalation of decomposition products, bring the injured person in the open air and request doctor's intervention. <ul style="list-style-type: none"> <li>Skin</li> </ul> Wash immediately with water and soap. <ul style="list-style-type: none"> <li>Eyes</li> </ul> Flush eyes with water.	
<b>5. FIRE-FIGHTING MEASURES</b> The product are non-combustible and do not pose fire hazard. The graphite powder can detonate above 350°C in atmosphere containing oxygen. However, packaging material may burn. <ul style="list-style-type: none"> <li>Suitable extinguishing media</li> </ul> Water, foam, carbon dioxide or powder <ul style="list-style-type: none"> <li>Extinguishing media which must not be used for safety reasons</li> </ul> Not know <ul style="list-style-type: none"> <li>Combustion products</li> </ul> CO, CO <sub>2</sub> , traces of other unknown combined gases. Special protective equipment for fire-fighters, as wear self-contained breathing apparatus and wear full protective equipment, is required.	
<b>6. ACCIDENTAL RELEASE MEASURES</b> <ul style="list-style-type: none"> <li>Personal precautions:</li> </ul> No special precaution are required, but local regulation may be apply <ul style="list-style-type: none"> <li>Environment Precautions</li> </ul> No special precaution are required, but local regulation may be apply	

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#### 7. HANDLING AND WAREHOUSING

- Handling
  1. Unpack material at application site to avoid unnecessary handling of product
  2. Keep work areas clean. Scrap material and debris dispose in suitable containers
  3. It's recommended to spray with water before sweeping or use vacuum cleaner
  4. Ensure good ventilation
- Storage
  1. Before use keep material in original packaging

Store material in areas where it is protected against adverse conditions including precipitation and UV radiation

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Local regulations may apply.

1. Engineering measures

In work areas ensure good ventilation

2. Control parameters

Local regulations may apply for fibre dust particle concentration per ml of workplace air

3. Respiratory protection

In the event of heavy dust development and in confined spaces, use disposable face-masks

4. Hand protection

Gloves are recommended only.

5. Eye protection

With heavy dust development, wear safety goggles.

6. Skinning protection

Wear just the regular work clothing it is recommended to wash and change cloth once the working time is finished

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : - Shape : solid amorphous, low hardness

- Colour : grey/black

- Odour : odourless

Modifications of the physical state : - Stable up to 350 ÷ 400°C in air

- Stable up to 550°C in not oxidizing atmosphere

- \* Flammability point : not applicable
- \* Ignition temperature : not applicable
- \* Inferior explosivity limit : not applicable
- \* Steam tension : not applicable
- \* Density: about 1,00 up to 1,50 g/cm<sup>3</sup>
- \* Solubility in water: insoluble

**Safety data Sheet****Product: Graphite Jointing Sheets Planigraph****10. STABILITY AND REACTIVITY**

- Thermal decomposition:  $350 < T \text{ } ^\circ\text{C} < 400$  oxidizing environment -  $T > 550^\circ\text{C}$  non oxidizing environment
- The product is quite stable in the normal use conditions
- Avoid contacts with strong oxidants, acids and strong bases
- Dangerous decomposition products : Carbon Monoxide, Carbon Dioxide and other traces of combined gases

**11. TOXICOLOGICAL INFORMATION**

- The product and its components do not enter in the risk categories indicated by the EEC; and we do not have data of acute and/or chronic pathologies to be attributed with the product

**12. ECOLOGICAL INFORMATION**

Stable product with no know adverse environmental effect

**13. DISPOSAL CONSIDERATION**

1. Uncontaminated product/material

If the material cannot be used or recycled, it can be disposed as a solid waste or incenerated in a suitable installation, subject to local regulations.

2. Contaminated product

the contaminated or empty containers must be disposed similarly as their content

**TRANSPORT INFORMATION**

1. Declaration about the surface, sea and air transport

The product is not dangerous substance in terms of national and international transport guidelines

2. Other information

Keep in dry. Store separately from food

**15. REGULATORY INFORMATION**

1. **EU CLASSIFICATION**

The product does not comply with either chemical or harmful substances classification, it is not the subject of the directive REACH, RoHS and is not boudbed by the restrictions of the system EU RAPEX. (Bote: the marking of materials is discussed with local authorities)

2. **OTHER REGULATION**

No special marking is required by EU standard

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**Safety data Sheet****Product: Graphite Jointing Sheets Planigraph****16. OTHER INFORMATION**

## 1. Health aspects

Safety in use of mineral and Synthetic Fibres, Occupational Safety and Health Series, international Labour Office (ILO).

## 2. Good working practice

Local regulations may be apply

## 3. Declaration

This material Safety Sheet contains the information which are necessary for ensuring the safety of work, health and environment protection. The information given herein is the best available on the date of its issue and comply with the local legal regulations. However, it does not constitute a contractual description of suitability and usability of the product for a particular application. This information is furnished as a guide only and upon the condition that the person receiving it shall make tests to determine the accuracy and suitability of these data for his/her own particular way of application.