

**SAFETY DATA SHEET**  
**According to Regulation n. 1907/2006 and Regulation 830/2015**  
**CARBO FAST FAGC3PD20-CARBO FAST FAGC3PD20UR**



Revision I dd 01.13.2021

**1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY**

**1.1 Product Identifier**

Denomination CARBO FAST FAGC3PD20  
CARBO FAST FAGC3PD20UR

**1.2 Substance or Mixture Identified pertinent uses and suggested uses**

Chemical Product for synthesis

**1.3 Safety Data Sheet supplier information**

**EU market introducing responsible**

Name FAGGI ENRICO S.P.A.  
Address Via Majorana, 101/103 50019 Sesto Fiorentino FI  
Telephone number 055311861  
Fax number 055311791

**Qualified person responsible for SDS**

lorenzo.magaldi@faggi.it

**1.4 Emergency Telephone Number:** Tel. 0557947819 Centro Antiveleni di Firenze

**1.5 Registry number**

For this product is not available a registration number as a mixture

**2. HAZARDS IDENTIFICATION**

**2.1 Mixture classification according to Reg. (CE) n. 1272/2008 : Not dangerous**

**2.2 Label elements : not applicable**

**Other dangers**

In certain conditions the mixture of coal dust and air can give rise to an explosive atmosphere. The wet coal removes oxygen from air causing serious dangerous for people who are in environments with low oxygen level.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Mixture**

| Product identification  | Concentration<br>% | Classification |                   |
|---|--------------------|----------------|-------------------|
|   |                    | Danger class   | Hazard statements |
| Active carbon<br>CAS 7440-44-0<br>EC: 931-328-0<br>Reach n. 01-2119488894-16-XXXX | 80                 | None           | None              |
| Palladium<br>CAS 7440-05-03<br>EC: 231-115-6<br>Reach n. 01-2120140175-66-XXXX    | 20                 | None           | None              |

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**4. FIRST AID MEASURES**

**4.1 First aid measures**

|              |   |
|--------------|---|
| Inhalation   | Remove from exposure to fresh air. If breathing is difficult, call a physician immediately.   |
| Ingestion    | Wash out mouth and give 2 glasses of water  |
| Skin contact | In case of contact remove contaminated clothing and shoes and wash immediately with plenty of water for at least 15 minutes. Get medical attention if irritation occurs. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Eye contact  | Remove contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening her eyes. Consult a doctor if the problem persists.   |

**Recommendations:**

- **Need to consult immediately a Doctor** NO
- **Possibility of delayed effects after exposure** NO
- **Move the exposed individual from exposure place to outdoor** NO
- **Remove individual's clothes and shoes** YES
- **Contaminated clothes handling** With gloves
- **For first aid responders, wear IPD** YES

**4.2 Most important symptoms and effects, both acute and delayed**

Contact with eyes and skin and inhalation may cause irritation due to the abrasive action of the dust

**4.3 Indication of any immediate medical attention**

there are no known specific provisions

**5. FIRE PREVENTION**

**5.1 Extinguishing means**

**Suitable extinguishing means:** water spray, foam.

**Non suitable extinguishing means** powder

**5.2 Special hazards arising from the mixture**

In certain conditions the mixture of coal dust and air can give rise to an explosive atmosphere.

**5.3 Advice for firefighters**

Avoid raising dust clouds. Normal clothes to fight the fire, like a compressed air breathing apparatus open circuit (EN137), complete with flame retardant (EN469), flame-resistant gloves (EN659) and boots for firefighters (HO A29 or A30).

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and procedures in case of emergency**

**6.1.1. For non-emergency personnel**

Keep away in case of dust clouds

**6.1.2. For emergency responders**

If you use a dry protective breathing (P2 filter mask), and dust-proof gloves.

**6.2 Environmental precautions:**

no special precautions are required.

**6.3 Methods and materials for containment and cleaning up**

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- 6.3.1. Recommendations on how to contain a spill**  
Recover the product dispersed and wash the residue with plenty of water.
- 6.3.2. Recommendations on how to clean up a spill**  
Prevent sewers contamination by fire extinguishing water. Dispose of via a licensed waste disposal contractor. To avoid rise of dust clouds, spray water on dry dust.
- 6.3.3. Other informations:**  
None

**6.4 Reference to other sections:**

-

**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

**7.1.1. General recommendations**

Avoid raising dust clouds. Keep any dust clouds away from sources of ignition. The activated carbon removes oxygen from humid air, causing serious hazards to people who are in environments in basal level of oxygen. Must be adhered to the work procedures appropriate for operations in environments with low oxygen potential.

**7.1.2. General recommendations on personal hygiene**

do not eat, drink or smoke in work areas; Wash hands thoroughly after use and remove contaminated clothing and protective equipment before entering areas where you eat.

**7.2. Conditions for safe storage, including any incompatibilities**

**7.2.1. Managing the risks associated with explosive atmospheres, corrosive conditions, dangers of flammability, incompatible substances and mixtures, evaporation conditions, potential ignition sources**

In certain conditions the mixture of coal dust and air can give rise to an explosive atmosphere.

**7.2.3. Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations**

Store in original closed container

**7.2.4. Precautions for maintaining integrity of the substances**

Keep away from oxidizing, unsaturated oils, gases or vapors, direct sources of heat, naked flames and other sources of ignition and direct sunlight.

**7.2.5. Provisions on ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities**

None

**7.3. Specific end use**

Catalyst for synthesis

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1. Control parameters**

The national occupational exposure limit values for this mixture have not been established occupational exposure limit values and biological. Below shows the limit values for substances

Activated carbon

**Germany: exposure limits** – breathable fraction: 1.5 mg / m<sup>3</sup> (long-term)

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**Germany: exposure limits** – breathable fraction: 4 mg / m<sup>3</sup> (long-term)

**Temporary inhalation DNEL long-term (repeated):** Industrial workers: 3 mg / m<sup>3</sup>

**Professional workers:** 3 mg / m<sup>3</sup>

**Consumers:** 0.5 mg / m<sup>3</sup>

**8.2.**

**Exposure controls:**

**8.2.1. Appropriate engineering controls**

If moist, with low dust levels, does not require any measure of risk management

**8.2.2. Individual protection measures, such as personal protective equipment**

**Protection Eye / face** wear safety glasses

**Skin protection (Hands)** Normal work clothes and gloves

**Respiratory protection** If moist, with low dust levels, does not require any measure of risk management

**Thermal hazards** None

**8.2.3. Environmental exposure controls**

Emissions from the production processes, including those from ventilation should be monitored for the purposes of compliance with environmental protection

**9.**

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1**

**Basic Information on physical and chemical properties**

**Appearances** Wet Powder

**Colour** Black

**Odour** Odourless

**Odour Threshold** Not applicable

**pH** 6-7 at 50 g/l 20°C (mixture)

**Melting point/freezing** Not applicable

**Initial boiling point and boiling range:** Not applicable

**Flash point** Not applicable

**Evaporation Rate** Not applicable

**Flammability (solid & gas)** Not applicable

**Upper/Lower flammability or explosive limits** Not applicable

**Vapour pressure** Not applicable

**Vapour Density** Not applicable

**Bulk density** 400 kg/m<sup>3</sup>

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|  |                             |
|--|-----------------------------|
| <b>Solubility in water</b>                   | insoluble                   |
| <b>Partition coefficient n-octanol/Water</b> | Not applicable              |
| <b>Auto-ignition Temperature</b>             | 460° C                      |
| <b>Decomposition Temperature</b>             | Not applicable              |
| <b>Viscosity</b>                             | Not applicable              |
| <b>Explosive Properties</b>                  | Not classified as explosive |

**9.2. Other informations**

None

**10. STABILITY AND REACTIVITY**

**10.1 Chemical Reactivity**

Catalitical properties

**10.2 Chemical stability**

This product does not show reactivity in the conditions of storage, shipment and use as specified.

**10.3 Possibility of hazardous reactions**

None

**10.4 Conditions to avoid**

Try to prevent the material dries completely

**10.5 Incompatible materials**

Oxidizing substances

**10.6 Hazardous decomposition products**

CO, CO<sub>2</sub>

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects of activated carbon**

**Acute toxicity:**

- **Oral:** Acute toxicological classification method (OECD 423): LD50 > 2000 mg / kg (rat)

- **Inhalation:** Acute standard method of classification: LC50 > 8.5 mg / l

- **Skin:** Absorption highly unlikely. There are no known effects on health

**Corrosion / irritation**

not irritating and corrosive to skin

**Eye irritations/damages**

not irritating and corrosive to eyes

**Sensitization**

not sensitizing.

**Mutagenicity**

Not mutagenic

**Carcinogenicity:**

Not carcinogenic

**Reproductive toxicity**

Not toxic

**Specific target organ toxicity (STOT) - single exposure**

no data available

**Specific target organ toxicity (STOT) – repeated exposure**

no data available

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|              |   |   |
|--------------|---|---|
|              | repeated exposure   |   |
|              | <b>Inhalation hazards</b>   | no data available   |
| <b>11.2</b>  | <b>Information about exposure routes</b>  |   |
|              | None  |   |
| <b>12.</b>   | <b>Ecological informations</b>  |   |
|              | <b>Aquatic Toxicity</b>   | Non-toxic. The mixture is highly insoluble in water and is unlikely to cross biological membranes                     |
|              | <b>Persistence and degradability</b>  | The substance is a refractory material and not subject to decomposition by any natural chemical or enzymatic process. |
|              | <b>Bioaccumulative potential</b>  | The mixture does not bioaccumulate  |
|              | <b>Mobility in soil</b>   | No relevant data  |
|              | <b>Results of PBT and vPvB evaluation</b>   | Not applicable  |
|              | <b>Other adverse effects</b>  | None  |
| <b>13.</b>   | <b>DISPOSAL CONSIDERATIONS</b>  |   |
| <b>13.1.</b> | <b>13. Methods of Waste Treatment:</b>  |   |
|              | Either the mixture or packages must be sent to approved facilities for the disposal of industrial waste   |   |
| <b>14.</b>   | <b>TRANSPORT INFORMATION</b>  |   |
|              | <b>14. ADR / RID (Land Transport):</b> Not subject. For the preparation of this mixture is used a coal steam-activated and consequently is not classified as dangerous goods. Reference ADR special provision 646 |   |
|              | <b>ICAO / IATA (air transport):</b> is not subject  |   |
|              | <b>IMDG (sea transport):</b> is not subject   |   |
| <b>15.</b>   | <b>REGULATORY INFORMATION</b>   |   |
|              | <b>15.1</b>   | <b>Legislazione</b>   |
|              |   | <b>Applicabilità</b>  |
|              | Reg. (CE) 1907/2006/CE Reach  | SI  |
|              | Reg. (EC) 1272/2008 and subsequent CLP. amendments and additions  | SI  |
|              | Reg. (EC) 2037/2000 "substances that deplete the ozone layer"   | NO  |
|              | Reg. (EC) 850/2004 "Persistent organic pollutants"  | NO  |
|              | Reg. (EC) 689/2008 "export and import hazardous chemicals"  | NO  |
|              | Substance listed in Annex I of Dir. 96/82 / EC - "Seveso II" Directive, which was transposed into national legislation by the Legislative Decree 334/99   | NO  |
|              | Italian Legislative Decree 81/2008 (Consolidated Act on protection of health and safety in the workplace), as amended   | SI  |
|              | Directive 2014/103/UE "Adr"   | NO  |
|              | <b>15.2</b>   |   |
|              | <b>Chemical Safety Assessment</b>   |   |
|              | A chemical safety assessment has not been carried out.  |   |
| <b>16.</b>   | <b>OTHER INFORMATION</b>  |   |
|              | <b>16.1</b>   |   |
|              | <b>Data compared to the previous version:</b>   |   |
|              | Modified sections 1 and 3   |   |
|              | <b>16.2</b>   |   |
|              | <b>Abbreviations and acronyms</b>   |   |
|              | ADR: European Agreement on the transport of dangerous goods by road   |   |
|              | RID: International Regulations on the Transport of Dangerous Goods by Rail.   |   |
|              | IMDG: International Marine Code for Dangerous Goods   |   |

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IATA: the international air transport association  
IATA-DGR: Dangerous Goods Regulations' Association aviation  
ICAO: International Civil Aviation.  
ICAO-TI: Technical Instructions by the international Civil Aviation Organization  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

**16.3 Key literature references and sources of the data on this MSDS:**

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>  
platform ESIS <http://esis.jrc.ec.europa.eu>

Safety data sheets of the suppliers of substances used in the formulation

**16.4 Classification and procedure used to derive it in accordance with Reg. (EC) 1272/2008 in relation to the mixtures.**

| Classification according to Regulation (CE) 1272/2008 | Classification Procedure |
|---|--------------------------|
| Not Dangerous   | Method of calculation    |

**16.5. Formazioni adeguate per i lavoratori al fine di garantire la protezione della salute umana e dell'ambiente**

- Training in accordance with the provisions of the Legislative Decree 81/2008 (Consolidated Act on protection of health and safety in the workplace), as amended.
- PPE use

**16.6. Other informations**

None