

**Safety data sheet**  
**According to Regulation n. 1907/2006 and Regulation 878/2020**  
**CARBO FAST FAGCPD DRY**



Revision n. 4 – 07.01.2025

Replaces revision n. 3 – 03.07.2023

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

**1.1 Product identifier**

Commercial name	Product code
CARBO FAST FAGC3PD10 DRY	303
CARBO FAST FAGC1PD5 DRY	309
CARBO FAST FAGC3PD5 DRY	310
CARBO FAST FAGC3PD5E DRY CARBO	311
CARBO FAST FAGC1PD3 DRY	314
CARBO FAST FAGC3PD3E DRY	316
UFI code	D1U0-90T7-Q001-30CJ

**1.2 Relevant identified uses of the mixture and advised uses**

Recommended uses	Industrial use.
Uses advised against	Catalyst for synthesis

**1.3 Information on the supplier of the safety data sheet**

Name	FAGGI ENRICO S.P.A.
Address	Via Majorana, 101/103 50019 Sesto Fiorentino FI
Telephone number	055311861
Fax number	055311791
Competent person responsible for the safety data sheet	lorenzo.magaldi@faggi.it

1.4 Emergency telephone number	111 - Medical helpline operating in England, in Scotland (NHS 24) and in Wales (NHS Direct Wales)
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**1.5 Registration number**

Exempt under Article 6(1)

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance according to Regulation (EC) no. 1272/2008**

Hazard class	Category codes	Hazards indications
Flam. Sol	2	H228

**Label elements**

**Pictograms**



**WARNING (Active carbon, palladium)**

<b>Signal word</b>		
<b>Hazard statements</b>	H228	Flammable solid
<b>Precautionary advice</b>	P210	Keep away from heat, hot surfaces, sparks, open flames and other sources. No smoking.
	P240	Ground and bond container and receiving equipment
	P241	Use explosion-proof electrical equipment.
	P280	Wear protective gloves/protecting clothing/ eye protection/ face protection
	P370 + P378	In case of fire: use nebulized water and foam to extinguish

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<b>UFI code</b>	D1U0-90T7-Q001-30CJ
<b>2.3 Other hazards</b>	<p>Damp coal removes oxygen from the air, causing serious dangers for people in low oxygen environments.</p> <p>Avoid stirring up dust clouds. Under certain conditions, charcoal dust/air mixtures may produce an explosive atmosphere. There is a risk of dust explosion if the following conditions are met:</p> <ul style="list-style-type: none"><li>- The substance is existent in very finely distributed form (powder).</li><li>- The substance is whirled up in sufficient quantity in the air.</li><li>- An ignition source is present (flame, spark, electrostatic discharge, etc.).</li></ul> <p>It does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII</p> <p>It does NOT contain substances that interfere with the endocrine system in accordance with Regulation (EC) 1907/2006 art.59 paragraph 1 and in accordance with the criteria established in Regulation (EU) 2017/2100 and Regulation (EU) 2018/605.</p>

**3. COMPOSITION INFORMATION ON INGREDIENTS**

**3.2 Mixture**

<b>Product identifier</b>	<b>Concentration</b> %	<b>Classification</b>	
		<b>Hazard classes</b>	<b>Category codes</b>
Active Carbon CAS 7440-44-0 EC : 931-328-0 INDEX : not available N. Reach 01-2119488894-16-XXXX ATE: not applicable M factors : not applicable	<b>85.0 ≤ C ≤ 98.0</b>	None	None
Palladium CAS 7440-05-03 EC: 231-115-6 INDEX: non disponibile N.Reach: 01-2120140175-66-XXXX ATE: not applicable M factors : not applicable	<b>2.0 ≤ C ≤ 15.0</b>	None	None

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

Inhalation: Remove from exposure and breathe fresh air. If breathing is difficult, call a doctor right away.

Ingestion: Wash mouth immediately and drink two glasses of water.

Skin contact: Remove contaminated clothing and shoes and wash immediately and abundantly with water for at least 15 minutes. Get medical attention if irritation occurs. Wash clothing before reuse. Thoroughly clean shoes before using them again.

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Contact with eyes: Eliminate any contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids well. Consult a physician if the problem persists.

**RECOMMENDATIONS:**

• <b>Need to see a doctor immediately</b>	NO
• <b>Possibility of delayed effects following exposure</b>	NO
• <b>Move the exposed individual from the place of exposure to open air</b>	NO
• <b>Remove clothing and shoes of the exposed individual</b>	YES
• <b>How to handle contaminated clothing</b>	With gloves
• <b>For those providing first aid, wear PPE</b>	YES

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

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

**4.3 Indication of any need to immediately consult a doctor and special treatments**

No specific provisions are known.

**5. FIRE FIGHTING MEASURES**

**5.1 Fire fighting**

Suitable extinguishing media      water spray, foam  
Unsuitable extinguishing media      dust

**5.2 Special hazards arising from the substance or mixture**

Damp coal removes oxygen from the air, causing serious dangers for people in low oxygen environments.

Avoid stirring up dust clouds. Under certain conditions, charcoal dust/air mixtures may produce an explosive atmosphere. There is a risk of dust explosion if the following conditions are met: - The substance is existent in very finely distributed form (powder).  
- The substance is whirled up in sufficient quantity in the air.  
- An ignition source is present (flame, spark, electrostatic discharge, etc.).

**5.3 Special recommendations for firefighters**

Avoid raising dust clouds. Normal fire-fighting clothing, such as self-contained open-circuit compressed air breathing apparatus (EN137), flame retardant suit (EN469), flame retardant gloves (EN659) and firefighter boots (HOA29 or A30)

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

**6.1.1. For those who do not intervene directly**

Move away in case of dust formation

**6.1.2. For those who intervene directly**

In case of dry product, use respiratory protection devices (filter mask P2) and dust-proof gloves.

**6.2 Environmental precautions**

No specific provisions are required

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

**6.3.1. Recommendations on how to contain a spill**

Collect the dispersed product and wash the residue with plenty of water.

**6.3.2. Recommendations on how to clean up a spill**

The fire extinguishing water must not be discharged into the sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations. To avoid dust formation, spray water before cleaning.

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**6.3.3. Any other information**  
None

**6.4 References to other sections**  
None

**7. HANDLING AND STORAGE**

**7.1. Precautions for Safe Handling**

**7.1.1. Recommendations that allow the substance or mixture to be handled safely, such as containment and prevention measures for fires and for the formation of aerosols and dusts**  
Avoid raising dust clouds especially in the presence of possible sources of ignition. Moist activated carbon removes oxygen from the air, causing serious dangers for people who are in environments with a low oxygen level. Appropriate work procedures must be followed for operations in low oxygen potential environments.

**7.1.2. Generic recommendations on occupational hygiene**  
Do not eat, drink and smoke in work areas. Wash your hands after use. Remove contaminated clothing and protective equipment before entering eating areas

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

**7.2.1. Management of risks associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances and mixtures, evaporation conditions, potential sources of ignition**  
Store in closed original container

**7.2.2. Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations**  
Store in closed original container

**7.2.3. Conditions for keeping substances / mixtures intact**  
Keep away from oxidizing substances, unsaturated oils, gases or vapors, direct heat sources, open flames, other ignition sources and direct sunlight.

**7.2.4. Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging**  
None in particular

**7.3. Specific end uses**  
Industrial use. Catalyst for synthesis

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**8.1. Control parameters**  
The occupational and biological exposure limit values have not been established for this mixture. The stability limit values for the substance contained are reported below

**Substance: Activated carbon**  
Germany: limit value for air - alveolar fraction: 1,5 mg / m<sup>3</sup> (long-term)  
Germany: limit value for air - respirable fraction: 4 mg / m<sup>3</sup> (long-term)

**Long-term temporary inhalation DNEL (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>

**PNEC**  
Freshwater: no data: aquatic toxicity unlikely  
Marine water: no data: aquatic toxicity unlikely

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Sewer treatment plant: no data: aquatic toxicity unlikely  
Sediment (freshwater): no exposure of sediment expected  
Sediment (marine water): no exposure of sediment expected  
Soil: no hazard identified

**Substance: Palladium**

**DNEL**

No hazard identified

**PNEC**

No hazard identified

**8.2. Exposure controls**

**8.2.1. Appropriate technical controls**

In the wet form, with low dustiness, no risk management measures are required

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

**Eye / face protection** Eye protective equipment compliant with Directive 89/686/EEC and standard EN166:2001

**Skin protection (hands)** Chemical gloves according to EN 420 EN 374

Glove material:

Natural latex

Material thickness: 0.5 mm

Penetration time: ≥ 60 min DIN EN374 method

**Skin (body) protection** Protective and anti-acid clothing compliant with UNI EN 13034:2006 type 6 standards

**Respiratory protection** In the wet form, with low dustiness, no risk management measures are required.

**Thermal hazards** None

**8.2.3. Environmental exposure controls**

Emissions from manufacturing processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

**9.**

**PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Physical state	Dust
Color	Black
Odor	Odourless
Melting point / freezing point	Not applicable
Boiling point or initial boiling point and boiling range	Not applicable
Flammability	Flammable
Lower and upper explosive limits	Lower explosive limit: 20 g/m <sup>3</sup>
Flash point	Not applicable
Self-ignition temperature	460 °C
Decomposition temperature	Not applicable
pH	6 – 7 ( 50 g/l at 20 °C – mixture with water)

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Cinematic viscosity	Not applicable
Solubility	Insoluble in water
Production coefficient n-octanol / water (logarithmic value)	Not applicable
Vapor pressure	Not available
Density and / or relative density	0.4 g/cm <sup>3</sup>
Relative vapor density	Not applicable
Characteristics of the particles	Particle size D <sub>10</sub> : 6 µm Particle size D <sub>50</sub> : 20 µm Particle size D <sub>90</sub> : 80 µm

**9.2. Other information**

None

**10. STABILITY AND REACTIVITY'**

**10.1 Reactivity**

Catalytic properties

**10.2 Chemical stability**

This product does not exhibit reactivity under the specified conditions of storage, shipping and use.

**10.3 Possibility of hazardous reactions**

Flammable

**10.4 Conditions to avoid**

Do not store together with oxidizing material.

**10.5 Incompatible materials**

Keep away from strong oxidizing agents

**10.6 Hazardous decomposition products**

CO, CO<sub>2</sub>

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on the toxicological effects of aluminum oxide**

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

- Inhalation: standard acute classification method: LC50> 8.5 mg / l

- Skin: highly unlikely absorption. There are no known health effects

Based on available data, the classification criteria are not met

**Skin corrosion / irritation**

Based on available data, the classification criteria are not met

**Serious eye damage / eye irritation**

Based on available data, the classification criteria are not met

**Respiratory or skin sensitization**

Based on available data, the classification criteria are not met

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met

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	<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met
	<b>Toxic for reproduction</b>	Based on available data, the classification criteria are not met
	<b>Specific target organ toxicity (STOT) single exposure</b>	Data not available
	<b>Specific target organ toxicity (STOT) repeated exposure</b>	Data not available
<b>11.2</b>	<b>Other information</b>	None
<b>12.</b>	<b>ECOLOGICAL INFORMATION</b>	
<b>12.1</b>	<b>Toxicity</b>	Non toxic. The mixture is highly insoluble in water and is unlikely to cross biological membranes.
<b>12.2</b>	<b>Persistence and degradability</b>	The substance is a refractory material and not subject to decomposition by any natural enzymatic or chemical process
<b>12.3</b>	<b>Bioaccumulation potential</b>	The mixture is not bioaccumulative
<b>12.4</b>	<b>Mobility in soil</b>	Not pertinent data
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	Not applicable
<b>12.6</b>	<b>Properties of interference with the endocrine system</b>	No effect known
<b>12.7</b>	<b>Other adverse effects</b>	No effect known
<b>13.</b>	<b>DISPOSAL CONSIDERATIONS</b>	
<b>13.1.</b>	<b>Waste treatment methods</b>	Both the mixture and the packaging must be sent to plants authorized for the disposal of industrial waste
<b>14.</b>	<b>INFORMATION ON TRASPORT</b>	
<b>14.1</b>	<b>UN number or ID number</b>	<b>UN3178</b>
<b>14.2</b>	<b>Official UN shipping name</b>	<b>Flammable solid, inorganic, N.O.S. (Charcoal activated, Palladium Metal), III(E)</b>
<b>14.3</b>	<b>Transport hazard classes</b>	
	ADR/ADN/RID/IMDG/ICAO-IATA:	4.1
	Class:	
	ADR/ADN/RID/IMDG/ICAO-IATA:	4.1
	Label:	
	ADR: Tunnel restriction code	(E)
	IMDG - EmS:	F-A S.G
<b>14.4</b>	<b>Packing group</b>	<b>III</b>
<b>14.5</b>	<b>Dangers for the environment</b>	
	ADR/ADN/RID/ICAO-IATA:	NO
	IMDG: Marine Contaminant:	NO
<b>14.6</b>	<b>Special precautions for users</b>	Transport must be carried out by vehicles authorized for the transport of dangerous goods according to the provisions of the current edition of the A.D.R. Agreement and the applicable national provisions. Transport must be carried out in the original

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packaging and, in any case, in packaging which is made of materials which cannot be attacked by the contents, and which are not likely to generate dangerous reactions. Those responsible for loading and unloading dangerous goods must have received appropriate training on the risks presented by the preparation and on any procedures to be adopted in the event of emergency situations

**14.7 Maritime transport in bulk according to IMO**

No bulk transport is foreseen

**15. REGULATORY INFORMATION**

	<b>Health, safety and environmental legislation and regulations specific to the substance or mixture</b>	<b>Applicability</b>
	Reg. (EC) 1907/2006 / EC Reach	YES
	Reg. (EC) 1272/2008 CLP and following changes and additions	YES
	Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"	NO
	Reg. (EC) 850/2004 "Persistent organic pollutants"	NO
	Reg. (EC) 689/2008 "export and import of dangerous chemicals"	NO
	Substance listed in Annex I of Dir. 2012/18 / EU so-called Seveso	NO
	Legislative Decree 81/2008 Consolidated Law on health and safety at work	YES
	Directive 2014/103 / EU "Adr"	YES
	Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)	NO
	Reg. (CE) 1907/2006/CE Reach - Annex XIV – Authorisation List	NO
	Reg. (CE) 1907/2006/CE Reach - Annex XVII – Restriction List	Limited use
	<a href="https://echa.europa.eu/it/substances-restricted-under-reach">https://echa.europa.eu/it/substances-restricted-under-reach</a>	Item 40 (check link)

**15.2 Chemical safety assessment**

A chemical safety assessment was not carried out

**16. OTHER INFORMATION**

**Changes compared to previous edition**

Changes to sections: 1-2-5-8-14-16

**Key to abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

GHS: Globally Harmonized System of Classification and Labeling of Substances

EINECS: European Inventory of Chemical Substances

CAS: Chemical Abstract Service

STA: Acute Toxicity Estimate

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: (very persistent and very bioaccumulative). Very persistent and very bioaccumulative

LD: lethal dose

PNEC: predicted no effect concentration

DNEL: derived no effect level

TLV (ceiling value): threshold limit value

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STEL: short-term exposure limit

## EU-OEL: European occupational exposure limit

TWA: time-weighted average

EC: effective concentration

NOAEL: no observed adverse effect level

LC: lethal concentration

NOEC: no observed effect concentration

LOEC: lowest observed effect concentration

EEC: lowest obs

Bw: body weight  
Koc: organic carbon-water partition coefficient

## Rec. organic carbon/water partition coefficient

## Main bibliographic references and data sources

ECHA database on registered substances and those under registration;

ECHA database on registered substances  
<https://chem-echo.echa.europa.eu/>

<https://chem.echa.europa.eu/>  
Indication, for mixtures, of which methods of evaluation of the information have been used for the purposes of classification

Classification	Classification procedure
Flammable solid	H228
<b>Adequate training for workers in order to ensure the protection of human health and the environment</b>	
Training on Chemical Risk pursuant to Legislative Decree 81/08 Title IX dangerous substances	Test method
Training on PPE	