

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)

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		



Signal word WARNING (Active carbon, palladium)

Hazard statements	H228	Flammable solid
Precautionary advice	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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2.3 Other hazards

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.).

It does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII

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.

3. COMPOSITION INFORMATION ON INGREDIENTS

3.2 Mixture

Product identifier	Concentration %	Classification	
		Hazard classes	Category codes
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	85.0 ≤ C ≤ 98.0	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	2.0 ≤ C ≤ 15.0	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:

- **Need to see a doctor immediately** NO
- **Possibility of delayed effects following exposure** NO
- **Move the exposed individual from the place of exposure to open air** NO
- **Remove clothing and shoes of the exposed individual** YES
- **How to handle contaminated clothing** With gloves
- **For those providing first aid, wear PPE** 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 / m³ (long-term)

Germany: limit value for air - respirable fraction: 4 mg / m³ (long-term)

Long-term temporary inhalation DNEL (repeated):

Industrial workers: 3 mg / m³

Professional workers: 3 mg / m³

Consumers: 0,5 mg / m³

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 ³
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 ³
Relative vapor density	Not applicable
Characteristics of the particles	Particle size D ₁₀ : 6 µm Particle size D ₅₀ : 20 µm Particle size D ₉₀ : 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, CO₂

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

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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	Carcinogenicity	Based on available data, the classification criteria are not met
	Toxic for reproduction	Based on available data, the classification criteria are not met
	Specific target organ toxicity (STOT) single exposure	Data not available
	Specific target organ toxicity (STOT) repeated exposure	Data not available
11.2	Other information	
	None	
12.	ECOLOGICAL INFORMATION	
12.1	Toxicity	Non toxic. The mixture is highly insoluble in water and is unlikely to cross biological membranes.
12.2	Persistence and degradability	The substance is a refractory material and not subject to decomposition by any natural enzymatic or chemical process
12.3	Bioaccumulation potential	The mixture is not bioaccumulative
12.4	Mobility in soil	Not pertinent data
12.5	Results of PBT and vPvB assessment	Not applicable
12.6	Properties of interference with the endocrine system	No effect known
12.7	Other adverse effects	No effect known
13.	DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods	
	Both the mixture and the packaging must be sent to plants authorized for the disposal of industrial waste	
14.	INFORMATION ON TRASPORT	
14.1	UN number or ID number	UN3178
14.2	Official UN shipping name	
	ADR/ADN/RID/IMDG/ICAO-IATA	Flammable solid, inorganic, N.O.S. (Charcoal activated, Palladium Metal), III(E)
14.3	Transport hazard classes	
	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
14.4	Packing group	III
14.5	Dangers for the environment	
	ADR/ADN/RID/ICAO-IATA:	NO
	IMDG: Marine Contaminant:	NO
14.6	Special precautions for users	
	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
	15.1	Health, safety and environmental legislation and regulations specific to the substance or mixture
		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
		https://echa.europa.eu/it/substances-restricted-under-reach 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
Bw: body weight
Koc: organic carbon-water partition coefficient

Main bibliographic references and data sources

ECHA database on registered substances and those under registration:

<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

Test method

Adequate training for workers in order to ensure the protection of human health and the environment

Training on Chemical Risk pursuant to Legislative Decree 81/08 Title IX dangerous substances

Training on PPE