Safety information sheet
CARBO FAST FAGC3PD5 - CARBO FAST FAGC3PD5E
CARBO FAST FAGC3PD5I - CARBO FAST FAGC3PD5U
CARBO FAST FAGC3PD5A

Revision n. V of 2022.02.11
Replaces revision n. IV of 2021.09.27

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

1.1 Product identifier

Commercial name	Product code
CARBO FAST FAGC3PD5	191
CARBO FAST FAGC3PD5E	211
CARBO FAST FAGC3PD5I	219
CARBO FAST FAGC3PD5U	212
CARBO FAST FAGC3PD5A	304

1.2 Relevant identified uses of the mixure and adviced uses

Catalyst for synthesis. Industrial use.

No use against advised

1.3 Information on the supplier of the safety data sheet

Name	FAGGI ENRICO S.P.A.
Adress	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

A registration number is not available for this product as it is a mixture.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance according to Regulation (EC) no. 1272/2008: Not dangerous

2.2 Label elements: not applicable

2.3 Other hazards

Under certain conditions, the mixture of coal dust and air can give rise to an explosive atmosphere. Damp coal removes oxygen from the air, causing serious dangers for people in low oxygen environments.

3. COMPOSITION INFORMATION ON INGREDIENTS

3.1 Mixure

Product identifier	**Concentration**	**Classification**	
	%	**Dangerous class**	**Category codes**
Active Carbon CAS 7440-44-0 *N. Reach 01-2119488894-16-XXXX*	**94.5 ≤ C ≤ 95.5**	None	None
Palladium *CAS 7440-05-03* *EC: 231-115-6* *N.Reach: 01-2120140175-66-XXXX*	**4.5 ≤ C ≤ 5.5**	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.

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

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

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.

6.3.3. **Any other information**

None

6.4 References to other sections

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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

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

Store in closed original closed container.

7.2.4. **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.

7.2.5. **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

Catalyst for synthese. Industrial use

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

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

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	Glasses
Skin protection (hands)	Gloves
Skin (body) protection	Work clothing
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

Appearance	Wet black powder
Odor	Odorless
Odor threshold	Not applicable
pH 6-7 at 50 g / l 20 ° C (mixture)	6-7 at 50 g / l 20 ° C (mixture)
Melting point / freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Studies not scientifically justified
Evaporation rate Not applicable	Evaporation rate Not applicable
Flammability (solid, gas)	Flammable in the dry state
Upper / lower flammability or explosive limits	Not applicable

Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	400 g / cm3
Solubility (ies)	Insoluble
Partition coefficient n-octanol / water	Not applicable
Auto-ignition temperature	460 ° C
Decomposition temperature	Not applicable
Viscosity	Not applicable
Explosive properties	Clouds or dust in confined spaces can give rise to explosive atmospheres
Oxidizing properties Not oxidizing	Oxidizing properties Not oxidizing

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 in the dry state

10.4 Conditions to avoid
Do not allow the material to dry completely. Do not store together with oxidizing material.

10.5 Incompatible materials
Keep away from strong oxidizing agents

10.6 Hazardous decomposition products
CO, CO_2

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	Not irritating or corrosive
	Serious eye damage / eye irritation	Does not cause damage/irration
	Respiratory or skin sensitization	Not sensitising
	Germ cell mutagenicity	Not mutagenic
	Carcinogenicity	Not cangeronic
	Toxic for reproduction	Not toxic
	Specific target organ toxicity (STOT) single exposure	Data not available
	Specific target organ toxicity (STOT) repeated exposure	Data not available
	Aspiration hazard	*
	Information on likely ways of exposure	

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**	No effect known
12.6	**Properties of interference with the endocrine system**	Not known effects
12.7	**Other adverse effects**	
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. **INFORMAZION ON TRASPORT**

14.1 Not subject to ADR regulations.
Steam-activated carbon is used for the preparation of this mixture and is therefore not classified as a dangerous good. Reference of special provision ADR 646.

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15. **REGULATORY INFORMATION**

	Health, safety and environmental legislation and regulations specific to the substance or mixture	**Applicability**
	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"	NO

15.2 **Chemical safety assessment**
A chemical safety assessment was not carried out

16. **OTHER INFORMATION**

Changes compared to previous edition
Regulamentary amendment

Key to abbreviations and acronyms
ADR: European agreement concerning the international transport of dangerous goods by road
GHS: Globally Harmonized System of Classification and Labeling of Substances
EINECS: European Inventory of Chemical Substances
CAS: Chemical Abstract Service

Main bibliographic references and data sources
ECHA database on registered substances and those under registration:

http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances

Indication, for mixtures, of which methods of evaluation of the information have been used for the purposes of classification

Classification: Non dangerous
Classification procedure: Calculation 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 DPI