

Safety information sheet
CARBO FAST FAGC3PDPT CARBO FAST FAGC6PDPT



Revision I dd 04.27.22

Replaces revision n I dd 07.27.21

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Commercial name	Product code
CARBO FAST FAGC3PDPT	300
CARBO FAST FAGC6PDPT	218
Registration number	A registration number is not available for this product as it is a mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended uses	Catalyst for synthesis. Industrial use.
Advised against uses	None in particular

1.3 Details of 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)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product is classified as non-dangerous pursuant to the provisions of Regulation (CE) 1272/08 (CLP) and s.m.i.

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.

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 (CE) 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 N. Reach: 01-2119488894-16-XXXX	90.0 ≤ C ≤ 99.0	None	None
Platinum CAS 7440-06-4 EC: 231-116-1	0.5 ≤ C ≤ 5.0	None	None

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N.Reach: 01-2120733612-61-XXXX
 Palladium **0.5 ≤ C ≤ 5.0** None None
 CAS 7440-05-03
 EC: 231-115-6
 N.Reach: 01-2120140175-66-XXXX

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove from exposure to fresh air. If breathing is difficult call a doctor immediately.
Ingestion	Wash out mouth and give to drink two glasses of water. Get medical attention.
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
Eye contact	Remove contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening the eyes. Consult a doctor if symptoms persist.

Reccomendation:

- **Need to see a doctor immediately** **NO**
- **Possibility of delayed effects following exposure** **NO**
- **Move the exposed individual from the place of exposure to the open air** **NO**
- **Remove the 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 immediate medical attention and special treatment needed

there are no known specific provisions

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: water spray, foam

Non suitable extinguishing media: none in particular

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. If involved in a fire it can release toxic vapors of carbon monoxide.

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 (HOA29 or A30).

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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Keep away in case of dust clouds

6.1.2. For emergency responders

In case of dry product use a protective breathing (P2 filter) mask, and dust-proof gloves.

6.2 Environmental precautions

Not specific precautions are required.

6.3 Methods and material for containment and cleaning up

6.3.1. Advice to contain a spill

Recover the product dispersed and wash the residue with plenty of water. Avoid creating dusts.

6.3.2. Advice to clean-up a spill

Spill cleaning water must not be discharged into sewers. Dispose of contaminated water and residue according to current regulations. To avoid dust formation, spray water before cleaning.

6.4 Reference to other sections

None

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. *Raccomentations to manipulate the substance or the mixture in a safe manner, such as containment measures and prevention of fire and aerosol and powders formation*

Avoid raising dust clouds especially in the presence of possible sources of ignition. Wet activated carbon removes oxygen from the air, causing serious dangers for people in low-oxygen environments. Appropriate work procedures must be followed for operations in low oxygen potential environments. Use under a hood.

7.1.2. *General recommendation on work 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. *Risk management associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances or mixtures, evaporative conditions, potential ignition sources*

Store in closed original container. Store in a well-ventilated, cool, and dry place.

7.2.2. *Control of weather conditions, ambient pressure, temperature, sunlight, humidity, and vibration*

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

7.2.3. *Conditions for keeping substances / mixtures intact*

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

7.2.4. *Advice regarding the ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities*

None in particular

7.3. Specific end use(s)

Industrial use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

No occupational and biological exposure limits have been established for this mixture. The limit values established for the contained substance are listed below

Activated carbon

Germany: air limit value- breathable fraction: 1,5 mg/m³ (long-term)

Germany: air limit value – breathable fraction: 4 mg/m³ (long-term)

DNEL long-term temporary inhalation (repeated):

Industry workers: 3 mg/m³

Professional workers: 3 mg/m³

Consumers: 0,5 mg/m³

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

Eye/face protection Glasses

Skin protection (hands) Gloves

Skin protection (body) Work clothes

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.

Do not let the product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Powderly solid
Colour	Black
Odour	Odourless
Melting point/freezing point	Not applicable
Boiling point or initial boiling point and boiling range	Not applicable
Flammability	The product must be kept moist. In the dry state it can generate flammable atmospheres with air
Lower and upper explosion limit	Lower explosion limit: 20 g/m ³
Flash point	Not applicable
Auto-ignition temperature	At dry status: 460 °C
Decomposition temperature	Not applicable
pH	6 – 7 a 50 g/l e 20 °C (dough)
Kinematic viscosity	Not applicable
Solubility	Insoluble in water
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not available
Density and/or relative density	0.4 g/cm ³
Relative vapour density	Not applicable
Particle characteristics	Particle size D ₁₀ : 6 µm

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Particle size D₅₀: 20 µm
Particle size D₉₀: 80 µm

9.2. Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

Catalytic 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

Flammable at dry status

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, acids and bases.

10.6 Hazardous decomposition products

CO, CO₂

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (CE) No 1272/2008

Acute toxicity

- **Oral:** Acute toxicological classification method (Ocse 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

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Serious eye damage/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

Carcinogenicity

Based on available data, the classification criteria are not met

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Reproductive toxicity	Based on available data, the classification criteria are not met
(STOT) single exposure	Based on available data, the classification criteria are not met
(STOT) repeated exposure	Causes damage to the respiratory tract through prolonged or repeated exposure
Aspiration hazard	Causes damage to the respiratory tract through prolonged or repeated exposure

11.2 Information on other hazards

None

12. ECOLOGICAL INFORMATION

As it is not possible to provide specific data on the mixture, the following data are provided for the substance ammonium vanadate

12.1 Toxicity	Nontoxic. The mixture is highly insoluble in water and is unlikely to cross biological membranes
12.2 Persistence and degradability	The substance is not subject to breakdown by any natural enzymatic or chemical process
12.3 Bioaccumulative potential	The mixture is not bio accumulative
12.4 Mobility in soil	No known effects
12.5 Results of PBT and vPvB assessment	Not PBT nor vPvB
12.6 Endocrine disrupting properties	No known effects
12.7 Other adverse effects	No known effects

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Either the mixture or packages must be sent to approved facilities for the disposal of industrial wastes.

14. TRANSPORT INFORMATION

14.1 UN number or ID number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	None
14.6 Special precautions for user	None

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14.7 Maritime transport in bulk according to IMO instruments Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture **Applicability**

Reg. (CE) 1907/2006/CE Reach YES

Reg. (CE) 1272/2008 CLP and subsequent amendments YES

Reg. (CE) 2037/2000 "Substances that deplete the ozone layer" NO

Reg. (CE) 850/2004 "Persistent organic pollutants" NO

Reg. (CE) 689/2008 "Export and import of hazardous chemicals" NO

Substance listed in Annex I of Dir. 2012/18/UE cd Seveso NO

Directive 81/2008 Consolidated Act on protection of health and work safety YES

Directive 2014/103/UE "Adr" NO

15.2 Chemical safety assessment

A chemical safety assessment was not carried out

16. OTHER INFORMATION

Changes compared to the previous edition

Changes in section 1 and 3

Acronim and abbreviation legend

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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstract Service

Main references and data sources

ECHA's data bank on registered substances and soon to be registered substances:

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

Reporting, for mixtures, which methods of evaluating the information were used for the purposes of classification.

Adequate training for workers to guarantee the protection of human health and the environment

- Training on the chemical risk ex Directive 81/08 Title IX dangerous substances
- Training on DPI