

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
CARBO FAST FAGC3PD20UR



Revision n. 2 – 12.05.2025

Replaces revision n. 1 – 06.04.2023

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

1.1 Product identifier

Commercial name	CARBO FAST FAGC3PD20UR
Product code	325
Registration number	A registration number is not available for this product as it is a mixture
UFI code	UWV0-E0YY-E00W-NH5Y

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

Intended uses	Industrial use. Catalyst for synthesis
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 dangerous pursuant to the provisions of Regulation (CE) 1272/08 (CLP) and s.m.i. The product therefore requires a safety data sheet compliant with the provisions of Regulation (CE) 1907/06 and subsequent amendments. Any additional information regarding risks to health and / or the environment are reported in sections 11 and 12 of this safety sheet.

Hazard classes	Category codes	Hazard statements
Eye Irr.	2	H319

2.2 Label elements

Pictograms



Signal word DANGER

Hazard statements

	H319	Causes serious eye irritation
Precautionary statements	P264	Wash hands thoroughly after handling
	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P305 + P351 + P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	P337 + P313	If eye irritation persists: Get medical advice/attention.

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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 (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	73 ≤ C ≤ 77	None	None
Palladium dihydroxide CAS 12135-22-7 EC: 235-219-2 INDEX: not available N.Reach: exempt for quantity ATE: not applicable M factor : not applicable	23 ≤ C ≤ 27	Ox. Sol. 3 Eye Irr. 2	H272 H319

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 drink 2 glasses of water. Do not give milk or alcohol. Consult a doctor.
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 any contact lenses. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids wide. Consult a doctor.

Recommendation:

- | | |
|--|------------|
| • Need to see a doctor immediately | YES |
| • Possibility of delayed effects following exposure | YES |

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- **Move the exposed individual from the place of exposure to the open air** YES
- **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

In case of ingestion, gastrointestinal disorders are possible

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: High pressure water jets

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 may release vapors of palladium oxides and carbon monoxide gas.

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

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

Prevent the cleaning water from the spill from entering water drains, sewers, groundwater.

6.3 Methods and material for containment and cleaning up

6.3.1. Advice in order to contain a spill

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

6.3.2. Advice in order 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 in order 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

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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

Store in the original container

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. Catalyst for synthesis

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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

Substance: Activated carbon

Germany: Air limit value - alveolar fraction: 1.5 mg/m³ (long-term)

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

DNEL

Long-term temporary inhalation (repeated):

Industrial workers: 3 mg/m³

Professional workers: 3 mg/m³

Consumers: 0.5 mg/m³

PNEC

Fresh water: no data: aquatic toxicity unlikely

Marine water: no data: aquatic toxicity unlikely

Sewage treatment plant: no data: aquatic toxicity unlikely

Sediment (fresh water): no sediment exposure expected

Sediment (marine water): no sediment exposure expected

Soil: no hazard identified

Substance: Palladium hydroxide

DNEL

Workers

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No hazard identified for exposure through ingestion, inhalation or skin contact.

Eye hazards: moderate risk (no derived threshold)

General population

No hazard identified

PNEC

No environmental hazards identified

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

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 protection (body)

Protective and anti-acid clothing compliant with UNI EN 13034:2006 type 6 standards

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	Odorless
Boiling point or initial boiling point and boiling range	Non 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

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Density and/or relative density	0.4 g/cm ³
Relative vapour density	Non applicable
Particle characteristics	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 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, metal oxides

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

May cause serious eye irritation

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

Reproductive toxicity

Based on available data, the classification criteria are not met

(STOT) single exposure

Not available data

(STOT) repeated exposure

Based on available data, the classification criteria are not met

11.2 Information on others hazards

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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	Based on available data, the classification criteria are not met
12.2	Persistence and degradability	The substance is not subject to breakdown by any natural enzymatic or chemical process
12.3	Bioaccumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Results of PBT and vPvB assessment	Not applicable
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	N.A.
14.2	Official UN shipping name	N.A.
14.3	Transport hazard class(es)	N.A.
14.4	Packing group	N.A.
14.5	Dangers for the environment	NONE
14.6	Special precautions for user	N.A.
14.7	Maritime transport in bulk according to IMO instruments	Bulk transport is not foreseen

15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	Applicability
	<i>Reg. (CE) 1907/2006/CE Reach</i>	YES
	<i>Reg. (CE) 1272/2008 CLP and subsequent amendments</i>	YES
	<i>Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"</i>	NO
	<i>Reg. (CE) 850/2004 "Persistent organic pollutants"</i>	NO
	<i>Reg. (CE) 689/2008 "Export and import of hazardous chemicals"</i>	NO
	<i>Substance listed in Annex I of Dir. 2012/18/UE cd Seveso</i>	YES
	<i>Directive 81/2008 Consolidated Act on protection of health and work safety</i>	YES
	<i>Directive 2014/103/UE "Adr"</i>	NO
	<i>Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)</i>	NO
	<i>Reg. (CE) 1907/2006/CE Reach - Annex XIV – Authorisation List</i>	NO
	<i>Reg. (CE) 1907/2006/CE Reach - Annex XVII – Restriction List</i>	Limited use
	https://echa.europa.eu/it/substances-restricted-under-reach	Item 75 (check link)

15.2 Chemical safety assessment

A chemical safety assessment was not carried out

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16. OTHER INFORMATION

Changes compared to the previous edition

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

Acronym and abbreviation legend

ADR: European Agreement concerning the International Carriage 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

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

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 references and data sources

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

<https://chem.echa.europa.eu/>

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

Classification	Classification procedure
Causes serious eye irritation	H319 Calculation method
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 PPE	