SAFETY INFORMATION SHEET

CARBO FAST FAGC1PD5UR - CARBO FAST FAGC3PD5UR

Revision III of 22.11.2022
Replaces revision II of 24.09.2022

1. IDENTIFICATION OF THE MIXURE AND COMPANY IDENTIFICATION

1.1 Identification of the substance

Denomination CARBO FAST FAGC1PD5UR - CARBO FAST FAGC3PD5UR

1.2 Substance or mixture Identified uses and suggested uses

Catalyst for synthesis

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

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Phone number	055311861
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Contact name	lorenzo.magaldi@faggi.it

1.4 Emergency Phone number: 111 - Medical helpline operating in England, in Scotland (NHS 24) and in Wales (NHS Direct Wales)

1.5 Registry number

A REACH registration number is not available as it is a mixure.

2. HAZARD IDENTIFICATION

2.1 Mixture classification according to Reg. (CE) n. 1272/2008 : Not dangerous

2.2 Label elements: N/A

Other information

Under certain conditions the mixture of coal dust and air
Can create an explosive atmosphere. Damp coal removes oxygen from the air, causing serious dangers for people who are in low oxygen environments.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixture

Product Identification	Concentration %	Classification Danger Class	Classification Category Codes
Actived Carbon CAS 7440-44-0 N.. Reach 01-2119488894-16	**92.5 ≤ C < 99.0**	None	None
Palladium monoxide CAS 1314-08-5	**1 < C ≤ 7.5**	Ox sol. 1	H271

4. FIRST AID MEASURES

4.1 Descriptions of first aid measures

Inhalation	Remove source of exposure or move person to the open air. Call your local emergency number or a health care professional if experiencing difficulty in breathing.
Ingestion	Rinse mouth thoroughly and drink 2 glasses of water.
Eye contact	Remove contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening her eyes. Consult a doctor if symptoms persist.

Skin contact — In case of contact remove contaminated clothing and shoes and wash skin immediately with water for at least 15 minutes. Get medical attention if irritation occurs. Wash clothing before reuse. Clean shoes throughly before reuse

Recommendations:

- **Need to consult immediately a Doctor** — **NO**
- **Possibility of delayed effects after exposure** — **NO**
- **Move the exposed individual from exposure place to outdoor** — **NO**
- **Togliere gli indumenti e le scarpe dell'individuo esposto** — **YES**
- **Contaminated clothes handling** — **With gloves**
- **For first aid responders, wear PPE** — **YES**

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention

No specific provision are known

5. FIRE PREVENTION

5.1 Fire Fighting

Suitable fire fighting equipment	Water spray, sand
Non suitable fire fighting equipment	Water jets, foam

5.2 Special hazards arising from the mixture

Under certain circumstances, the mixure of coal dust and air can create an explosive atmosphere

5.3 Special recommendations for firesighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and procedures in case of emergency

6.1.1. Non-Emergency personnel

Keep away in case of dust

6.1.2. Emergency personnel

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

6.2 Environmental precautions:

No specific precautions are required

6.3 Methods and materials for containment and cleaning up

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

Recover the dispersed product and wash the residue with plenty of water

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

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

6.3.3. **Other informations:**

None

6.4 Reference to other sections:

None

7. HANDIGLING AND STORAGE

7.1. Precautions for safe handling:

7.1.1. Reccomendations for the safe handling of the substance or mixture,containment and prevention measures for fires and for the formation of aerosols and dusts

Avoid raising dust clouds especially in the presence of possible ignition sources. Actived wet carbon removes oxygen from the air, causing serious danger 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. General recommendation on workplace 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.* Managing the risks associated with explosive atmospheres, corrosive conditions, dangers of flammability, incompatible substances and mixtures, evaporation conditions, potential ignition sources**

Store in original closed container.

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

Store in original closed container

***7.2.3.* Precautions for maintaining integrity of the substances**

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

***7.2.4.* Provisions on ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities**

None

7.3. Specific uses

Industrial use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

No occupational and biological limits have been established for this mixture. The limit values established for the mixure are given here below:

Active Carbon

Germany: Air limit value-alveolar fraction: 1.5 mg/m3 (long-term)
Germany: Air limit value- breathable 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.* Control parameters**

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

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

Eye protection/ face protection	Safety glasses
Skin protection (Hands)	Long contact waterproof gloves
Skin protection (Body)	Working clothes
Respiratory protection	In wet form, with low dustiness no risk management measures are required
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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic Information on physical and chemical properties

Appearances	Black wet dust
Odour	Odourless
Odour Threshold	N/A
pH	from 6-7 a 50 g/l 20°C (dough)
Melting point/freezing	N/A
Initial boiling point and boiling range	N/A
Flash point	Not scientifically supported evidences
Evaporation Rate	N/A
Flammalability (solid & gas)	Flammable in dry state
Upper/Lower flammability or explosive limits	N/A
Vapour pressure	N/A
Vapour Density	N/A
Bulk density	400 g/cm^3
La Solubility in water	Insoluble
Partition coefficient n-octanol/Water	N/A
Auto-ignition Temperature	460°C
Decomposition Temperature	N/A
Viscosity	N/A
Explosive Properties	Clouds or dust in confined spaces can create explosive atmospheres
Oxydising Properties	Not oxidizing

9.2. Other information (miscibility,solubility,fat solubility,redox potential, potential radical formation and photocatalytic properties)

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

Catalitical properties

10.2 Chemical Stability

This product shows no reactivity under the specifies conditions of storage, shipping and use.

10.3 Possibility of hazardous reactions

Inflammable in dry status

10.4 Conditions to avoid

Avoid material to dry completely. Do no store with oxidizing material.

10.5 Incompatible materials

Keep away from oxidizing agents

10.6 Hazardous decomposition products

CO, CO_2

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects of lead

	Acute toxicity	**Oral :** Acute toxicological classification method (OECD 423): LD50 >2000 MG/KG (Rat) **Inhalation:** Acute classification standard method: LD50 >8.5 MG/L **Skin:** highly unlikely absorption. Not known health effects.
	Corrosion/irritation	Based on available data, the classification criteria are not met
	Eye irritations/damages	Based on available data, the classification criteria are not met
	Respiratory or skin sensitization	Based on available data, the classification criteria are not met
	Mutagenicity	Based on available data, the classification criteria are not met
	C Carcinogenicity:	Based on available data, the classification criteria are not met
	Reproductive toxicity	Based on available data, the classification criteria are not met
	Specific target organ toxicity (STOT) - single exposure	N/A
	Specific target organ toxicity (STOT) – repeated exposure	N/A

11.2. **Other information**

None

12. **Ecological informations**

Toxicity	Non toxic: the mixure is highly insoluble in water and is unlikely to cross biological membranes.
Persistence and degradability	The substance is a refractory material and it is not subject to decomposition by any enzymatic or natural chemical process
Bioaccumulative potential	Not bioaccumulative
Mobility in soil	N/A
Results of PBT and vPvB evaluation	N/A
Other adverse effects	No known effects

13. **DISPOSAL CONSIDERATIONS**

13.1. **Methods of Waste Treatment:**

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

14. **TRANSPORT INFORMATION**

Not subject to ADR regulations. Stam active carbon is used to prepare this mixure and it is therefore not classified as a dangerous good. Reference of special provision ADR 646

15. **REGULATORY INFORMATION**

15.1	**Legislation**	**Applicability**

Reg. (CE) 1907/2006/CE Reach	YES
Reg. (CE) 1272/2008 CLP e succ. **and subsequent CLP. amendments and additions**	YES
Reg. (CE) 2037/2000 "**substances that deplete the ozone layer"**	NO
Reg. (CE) 850/2004 "**Persistent organic pollutants"**	NO
Reg. (EC) 689/2008 "export and import hazardous chemicals"	NO
Substance listed in Annex I of Dir. 96/82 / EC - "Seveso II" Directive, which was transposed into national legislation by the Legislative Decree 334/99	NO
Italian Legislative Decree 81/2008 (Consolidated Act on protection of health and safety in the workplace), as amended	YES
Directive 2014/103/UE "Adr"	NO
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	NO

https://echa.europa.eu/it/substances-restricted-under-reach

15.2 **Chemical Safety Assessment**

A chemical safety assessment has not been carried out.

16. Other information

Data compared to the previous version:

Amendment to section 11, 15

Abbreviations and acronyms

ADR : European Agreement on the transport of dangerous goods by road
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European inventory of chemicals
CAS: Chemical Abstracts Service

Key literature references and sources of data

Safety data sheets of the suppliers of substances used in the formulation
http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
ESIS website:
http://esis.jrc.ec.europa.eu

Evaluating methods used for the purpose of classification:

Classification	**Classification procedure**
Not dangerous	**Calculation method**

Workers training to ensure protection of human health and environment health

- Chemical risk training ex D.lgs 81/08 Titolo IX dangerous substances
- Training on DPI