

**Safety information sheet**  
**CARBO FAST FAGC1RH5**



Revision n. II of 2021.09.24

Replaces revision n. I of 2020.11.20

<b>1.</b>	<b>IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY</b>			
<b>1.1</b>	<b>Product identifier</b>			
	Commercial name	Product code		
	CARBO FAST FAGC1PD5V	174		
<b>1.2</b>	<b>Relevant identified uses of the mixture and advised uses</b>			
	Catalyst for synthesis. Industrial use.			
<b>1.3</b>	<b>Information on the supplier of the safety data sheet</b>			
	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		
<b>1.4</b>	Emergency telephone number	Ph 0557947819 Poison Control Center of Florence		
<b>1.5</b>	<b>Registration number</b>			
	A registration number is not available for this product as it is a mixture.			
<b>2.</b>	<b>HAZARDS IDENTIFICATION</b>			
<b>2.1</b>	<b>Classification of the substance according to Regulation (EC) no. 1272/2008: Not dangerous</b>			
<b>2.2</b>	<b>Label elements: not applicable</b>			
<b>2.3</b>	<b>Other hazards</b>	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.		
<b>3.</b>	<b>COMPOSITION INFORMATION ON INGREDIENTS</b>			
<b>3.1</b>	<b>Mixture</b>			
	<b>Product identifier</b>	<b>Concentration</b>	<b>Classification</b>	
		<b>%</b>	<b>Dangerous class</b>	<b>Category codes</b>
	Active Carbon CAS 7440-44-0 EC 931-328-0 N. Reach: 01-2119488894-16-XXXX	<b>92.5 ≤ C ≤ 99.5</b>	None	None
	Rodhium CAS 7440-16-6 EC 231-125-0 N. Reach: Not available	<b>0.5 ≤ C ≤ 7.5</b>	None	None
<b>4.</b>	<b>FIRST AID MEASURES</b>			
<b>4.1</b>	<b>Description of first aid measures</b>			
	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.			

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		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.												
		<b>RECOMMENDATIONS:</b>												
		<table border="1"> <tr> <td>• <b>Need to see a doctor immediately</b></td> <td>NO</td> </tr> <tr> <td>• <b>Possibility of delayed effects following exposure</b></td> <td>NO</td> </tr> <tr> <td>• <b>Move the exposed individual from the place of exposure to open air</b></td> <td>NO</td> </tr> <tr> <td>• <b>Remove clothing and shoes of the exposed individual</b></td> <td>YES</td> </tr> <tr> <td>• <b>How to handle contaminated clothing</b></td> <td>With gloves</td> </tr> <tr> <td>• <b>For those providing first aid, wear PPE</b></td> <td>YES</td> </tr> </table>	• <b>Need to see a doctor immediately</b>	NO	• <b>Possibility of delayed effects following exposure</b>	NO	• <b>Move the exposed individual from the place of exposure to open air</b>	NO	• <b>Remove clothing and shoes of the exposed individual</b>	YES	• <b>How to handle contaminated clothing</b>	With gloves	• <b>For those providing first aid, wear PPE</b>	YES
• <b>Need to see a doctor immediately</b>	NO													
• <b>Possibility of delayed effects following exposure</b>	NO													
• <b>Move the exposed individual from the place of exposure to open air</b>	NO													
• <b>Remove clothing and shoes of the exposed individual</b>	YES													
• <b>How to handle contaminated clothing</b>	With gloves													
• <b>For those providing first aid, wear PPE</b>	YES													
<b>4.2</b>		<b>Most important symptoms and effects, both acute and delayed</b>												
		Contact with eyes and skin and inhalation can cause irritation due to the abrasive action of the dust.												
<b>4.3</b>		<b>Indication of any need to immediately consult a doctor and special treatments</b>												
		No specific provisions are known.												
<b>5.</b>		<b>FIRE FIGHTING MEASURES</b>												
<b>5.1</b>		<b>Fire fighting</b>												
	Suitable extinguishing media	water spray, foam												
	Unsuitable extinguishing media	dust												
<b>5.2</b>		<b>Special hazards arising from the substance or mixture</b>												
		Under certain conditions the mixture of coal dust and air can give rise to an explosive atmosphere.												
<b>5.3</b>		<b>Special recommendations for firefighters</b>												
		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)												
<b>6.</b>		<b>ACCIDENTAL RELEASE MEASURES</b>												
<b>6.1</b>		<b>Personal precautions, protective equipment and emergency procedures</b>												
	<b>6.1.1.</b>	<b>For those who do not intervene directly</b>												
		Move away in case of dust formation												
	<b>6.1.2.</b>	<b>For those who intervene directly</b>												
		In case of dry product, use respiratory protection devices (filter mask P2) and dust-proof gloves.												
<b>6.2</b>		<b>Environmental precautions</b>												
		No specific provisions are required												
<b>6.3</b>		<b>Methods and materials for containment and cleaning up</b>												
	<b>6.3.1.</b>	<b>Recommendations on how to contain a spill</b>												
		Collect the dispersed product and wash the residue with plenty of water.												
	<b>6.3.2.</b>	<b>Recommendations on how to clean up a spill</b>												

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			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.
		<b>6.3.3.</b>	<b>Any other information</b>
			None
	<b>6.4</b>	<b>References to other sections</b>	
			-
<b>7.</b>		<b>HANDLING AND STORAGE</b>	
	<b>7.1.</b>	<b>Precautions for Safe Handling</b>	
		<b>7.1.1.</b>	<b><i>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</i></b>
			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.
		<b>7.1.2.</b>	<b><i>Generic recommendations on occupational hygiene</i></b>
			Do not eat, drink and smoke in work areas. Wash your hands after use. Remove contaminated clothing and protective equipment before entering eating areas
	<b>7.2.</b>	<b>Conditions for safe storage, including any incompatibilities</b>	
		<b>7.2.1.</b>	<b>Management of risks associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances and mixtures, evaporation conditions, potential sources of ignition</b>
			Store in closed original container
		<b>7.2.3.</b>	<b>Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations</b>
			Store in closed original closed container.
		<b>7.2.4.</b>	<b>Conditions for keeping substances / mixtures intact</b>
			Keep away from oxidizing substances, unsaturated oils, gases or vapors, direct heat sources, open flames, other ignition sources and direct sunlight.
		<b>7.2.5.</b>	<b>Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging</b>
			None in particular
	<b>7.3.</b>	<b>Specific end uses</b>	
			Industrial use
<b>8.</b>		<b>EXPOSURE CONTROL / PERSONAL PROTECTION</b>	
	<b>8.1.</b>	<b>Control parameters</b>	
			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 <u>Activated carbon</u> Germany: limit value for air - alveolar fraction: 1,5 mg / m <sup>3</sup> (long-term) Germany: limit value for air - respirable fraction: 4 mg / m <sup>3</sup> (long-term) Long-term temporary inhalation DNEL (repeated): Industrial workers: 3 mg / m <sup>3</sup>

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		Professional workers: 3 mg / m <sup>3</sup> Consumers: 0,5 mg / m <sup>3</sup>
<b>8.2.</b>		<b>Exposure controls</b>
	<b>8.2.1.</b>	<b>Appropriate technical controls</b>
		In the wet form, with low dustiness, no risk management measures are required
	<b>8.2.2.</b>	<b>Individual protection measures, such as personal protective equipment</b>
		<b>Eye / face protection</b> Glasses
		<b>Skin protection (hands)</b> Gloves
		<b>Skin (body) protection</b> Work clothing
		<b>Respiratory protection</b> In the wet form, with low dustiness, no risk management measures are required.
		<b>Thermal hazards</b> None
	<b>8.2.3.</b>	<b>Environmental exposure controls</b>
		Emissions from manufacturing processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.
<b>9.</b>		<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
	<b>9.1</b>	<b>Information on basic physical and chemical properties</b>
		Physical state      Wet powder
		Colour      Black
		Odor      Odorless
		Melting point / freezing point      Not applicable
		Boiling point or start point and application range      Not applicable
		Flammability      Flammable in the dry state
		Lower and upper explosive limits      Not explosive
		Flash point      Not applicable
		Dry flammable self-ignition temperature      460 ° C
		Decomposition temperature      not applicable
		pH      Not applicable
		Kinematic viscosity      Not applicable
		Solubility      Insoluble in water
		Calculation coefficient n-octanol / water (logarithmic value)      Not applicable
		Vapor pressure      Not applicable

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		Density and / or relative density	0.4 g / cm <sup>3</sup>
		Relative vapor density	Not applicable
		Particle characteristics	Particle size D10: 6 µm
	<b>9.2.</b>	<b>Other information</b>  None	
<b>10.</b>		<b>STABILITY AND REACTIVITY'</b>	
	<b>10.1</b>	<b>Reactivity</b> Catalytic properties	
	<b>10.2</b>	<b>Chemical stability</b> This product does not exhibit reactivity under the specified conditions of storage, shipping and use.	
	<b>10.3</b>	<b>Possibility of hazardous reactions</b> Flammable in the dry state	
	<b>10.4</b>	<b>Conditions to avoid</b> Do not allow the material to dry completely. Do not store together with oxidizing material.	
	<b>10.5</b>	<b>Incompatible materials</b> Keep away from strong oxidizing agents	
	<b>10.6</b>	<b>Hazardous decomposition products</b> CO, CO <sub>2</sub>	
<b>11.</b>		<b>TOXICOLOGICAL INFORMATION</b>	
	<b>11.1</b>	<b>Information on the toxicological effects of aluminum oxide</b>	
		<b>Acute toxicity</b>	<ul style="list-style-type: none"> <li>- <b>Oral:</b> acute toxicological classification method (OECD 423): LD50&gt; 2000 mg / kg (rat)</li> <li>- <b>Inhalation:</b> standard acute classification method: LC50&gt; 8.5 mg / l</li> <li>- <b>Skin:</b> highly unlikely absorption. There are no known health effects</li> </ul>
		<b>Skin corrosion / irritation</b>	Based on available data, the classification criteria are not met

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		<b>Serious eye damage / eye irritation</b>	Based on available data, the classification criteria are not met
		<b>Respiratory or skin sensitization</b>	Based on available data, the classification criteria are not met
		<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
		<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met
		<b>Toxic for reproduction</b>	Based on available data, the classification criteria are not met
		<b>Specific target organ toxicity (STOT) single exposure</b>	Based on available data, the classification criteria are not met
		<b>Specific target organ toxicity (STOT) repeated exposure</b>	Based on available data, the classification criteria are not met
		<b>Aspiration hazard</b>	*
		<b>Information on likely ways of exposure</b>	
<b>11.2</b>		<b>Other information</b>	
		None	
<b>12.</b>		<b>ECOLOGICAL INFORMATION</b>	
	<b>12.1</b>	<b>Toxicity</b>	Non toxic. The mixture is highly insoluble in water and is unlikely to cross biological membranes.
	<b>12.2</b>	<b>Persistence and degradability</b>	The substance is a refractory material and not subject to decomposition by any natural enzymatic or chemical process
	<b>12.3</b>	<b>Bioaccumulation potential</b>	The mixture is not bioaccumulative
	<b>12.4</b>	<b>Mobility in soil</b>	Not pertinent data
	<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	No effect known
	<b>12.7</b>	<b>Other adverse effects</b>	None

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<b>13.</b>		<b>DISPOSAL CONSIDERATIONS</b>	
	<b>13.1.</b>	<b>Waste treatment methods</b>	
		Both the mixture and the packaging must be sent to plants authorized for the disposal of industrial waste	
<b>14.</b>		<b>INFORMAZION ON TRASPORT</b>	
	<b>14.1</b>	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.	
	<b>14.2</b>	UN proper shipping name: Not applicable	
	<b>14.3</b>	Transport hazard class: Not applicable	
	<b>14.4</b>	Packing group: Not applicable	
	<b>14.5</b>	Environmental: hazards Not applicable	
	<b>14.6</b>	Special precautions for user: Not applicable	
	<b>14.7</b>	Bulk sea transport in accordance with IMO acts: Not applicable	
<b>15.</b>		<b>REGULATORY INFORMATION</b>	
	<b>15.1</b>	<b>Health, safety and environmental legislation and regulations specific to the substance or mixture</b>	<b>Applicability</b>
		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
	<b>15.2</b>	<b>Chemical safety assessment</b>	
		A chemical safety assessment was not carried out	
<b>16.</b>		<b>OTHER INFORMATION</b>	
		<b>Changes compared to previous edition</b>	
		Regulamentary amendment	
		<b>Key to abbreviations and acronyms</b>	
		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	
		<b>Main bibliographic references and data sources</b>	
		ECHA database on registered substances and those under registration:	

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		<a href="http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances">http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances</a>
		<b>Indication, for mixtures, of which methods of evaluation of the information have been used for the purposes of classification</b>
		Classification: Non dangerous
		Classification procedure: Calculation method
		<b>Adequate training for workers in order to ensure the protection of human health and the environment</b>
		<ul style="list-style-type: none"><li>• Training on Chemical Risk pursuant to Legislative Decree 81/08 Title IX dangerous substances</li><li>• Training on DPI</li></ul>