

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
CARBO FAST FAGC3PT5V



Revision n. II – 02.12.2022

Replaces revision n. I - 10.05.21

Precautionary statements	P260	Do not breathe dust/fume/gas/mist/vapours / spray.
	P263	Avoid contact during pregnancy and while nursing.
	P264	Wash hands thoroughly after handling
	P270	Do not eat, drink or smoke when using this product.
	P273	Avoid release to the environment
	P391	Collect spillage.
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	93.6 ≤ C ≤ 95.5	None	None
Platinum CAS 7440-06-4 EC: 231-116-1 INDEX: not available N.Reach: 01-2120733612-61-XXXX ATE: not applicable M factors: not applicable	0.5 ≤ C ≤ 1.5	None	None
Ammonium monovanadate CAS 7803-55-6 EC: 232-261-3 INDEX: not available N.Reach: exempt for quantity	4.0 ≤ C ≤ 4.9	Acute tox. 3 Eye Irr. 2 Acute tox. 4 Repr. 2 STOT RE 1	H301 H319 H332 H361 H372

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ATE (oral): 100 mg/kg bw

Aquatic Chronic 2

H411

STA (respiratory): 100 ppm

M factor chronic toxicity: 1

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.
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** YES
- **Possibility of delayed effects following exposure** YES
- **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

For ammonium salts the following applies in general: after ingestion: local irritation, illness, vomiting, diarrhea. Systemic action: after ingestion of large quantities, pressure drop, collapse, CNS disorders, cramps, states of narcosis, lack of narcosis, haemolysis.

Vanadium and its compounds cause: irritation after contact with the eyes and skin, irritation of the mucous membranes, cough and dyspnoea after inhalation. After the absorption of toxic quantities there are changes in the blood picture, weight loss and cardiovascular disorders.

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 nitrogen oxides, ammonia, 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).

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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. Recommendations 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 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.

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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 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	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
Density and/or relative density	4 g/cm ³

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Relative vapour density
Particle characteristics

Non applicable
Particle size D₁₀: 6 µm
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, NH₃ and nitrogen 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

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

Suspected of damaging the unborn child

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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 Causes damage to the respiratory tract through prolonged or repeated exposure

11.2 Information on others 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 CL50 fish (*Ictalurus catus*): 2.6 mg/l per 96h
NOEC fish (*Clarias batrachus*): 0.873 mg/l per 30 dies

12.2 Persistence and degradability The substance is not subject to breakdown by any natural enzymatic or chemical process

12.3 Bioaccumulative potential No known effects

12.4 Mobility in soil No known effects

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 **ONU 3077**

14.2 UN proper shipping name Environmentally hazardous substance, solid, n.o.s.

14.3 Transport hazard class(es) 9

14.4 Packing group III

14.5 Environmental hazards YES

14.6 Special precautions for user n.a.

14.7 Maritime transport in bulk according to IMO instruments n.a.

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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>	YES
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	Limited use
https://echa.europa.eu/it/substances-restricted-under-reach	Item 65 - 75 (check link)
15.2 Chemical safety assessment	
A chemical safety assessment was not carried out	

16. OTHER INFORMATION

Changes compared to the previous edition

Regulatory amendment

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.

Classification	Classification procedure
Suspected of damaging fertility or the unborn child	H361 Calculation method
Causes damage to organs through prolonged or repeated exposure	H372 Calculation method
Toxic to aquatic life with long-lasting effects	H411 Calculation method
Adequate training for workers to guarantee the protection of human health and the environment	
<ul style="list-style-type: none"> • Training on the chemical risk ex Directive 81/08 Title IX dangerous substances • Training on PPE 	