



MATERIAL SAFETY DATA SHEET

European Directive 2001 / 58 / EC

Product : **CARBINE T Granulés**

Version n°01 of 10/11/2005

1 – Product and company identification

Product name: **CARBINE T Granulés**

Application: activated carbon for oenological use

Supplier: SOFRALAB – MARTIN VIALATTE ŒNOLOGIE – STATION ŒNOTECHNIQUE DE CHAMPAGNE
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Emergency number: ORFILA 00 33 (0)1 45 42 59 59

2 - Composition / Information on ingredients

Substance: activated carbon and clay based preparation.

3 – Hazards identification

Major hazards

Adverse health effect: drying effect

Environmental fate: in itself, the product poses no environmental hazard.

Physical and chemical hazards: combustible product

Product classification: NOT REGULATED (Directive 1999/45/EC as modified)

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4 – First aid measures

In case of inhalation: if inhalation is important, remove subject to fresh air.

In case of eye contact: wash immediately with plenty of water, eyelids open, for at least 15 minutes. (in order to remove dust).

Other information: remove product, adequate body hygiene.

5 - Fire-fighting measures

Extinguishing agent recommended: foam

Unsuitable extinguishing agent: water in closed environment

Specific risks: in bulk, will burn slowly without flame.
Highly combustible in presence of liquid oxygen, ozone and strong oxidizing agent.

6 - Accidental release measures

Individual precautions: in general, none is necessary.

Cleaning measures

Collection: do not grind.
Sweep, collect with a shovel.
Reuse if product is not contaminated.

Disposal: if foreign substances have been adsorbed, incinerate contaminated residues in an authorized facility.

7 – Handling and storage

Handling

Technical measures: in general, none is necessary.

Prevention of employee exposure: avoid grinding the product, formation and diffusion of dust into environment.
In a closed environment, activated carbon adsorbes oxygen: risk of suffocation.

Storage

Technical measures: store away from solvents (possible adsorption of their vapors by activated carbon) and strong oxidizing agents.

Storage conditions

Recommended: a dry, cool and ventilated area.

Avoid: proximity to strong oxidizing agents.

Incompatible materials: rapid combustion in presence of liquid oxygen, ozone and strong oxidizing agents.

Packaging materials:

Recommended: large supple bulk containers.
Paper bags.
Foil or steel for tank trucks.

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8 - Exposure control/Personal protection

Control parameters

Limit values: France:
 Total dust: average exposure value (VME) = 10 mg/m³
 USA (American Conference of Industrial Hygienists : ACGIH)
 Total dust: TLV (threshold limit values)-TWA (time weighted average)= 10 mg/m³

Hygiene measures: avoid grinding the product and dust formation.

9 - Physical and chemical properties

Appearance

Physical state: solid
 Form: soluble granules
 Colour: black
 Odour: odourless
 pH: 8 – 11 (at recommended dilution).

Characteristic temperatures

Flash point: N/A.
 Autoignition temperature: minimum autoignition temperature > 500°C
 (VDI guideline 2263)
 Minimum ignition energy > 1 J
 (EIC standard 1241-2-3)

Explosion characteristics: explosion class St 1 (**K_{st}** ≤ 200 bar.m/s)
 (ISO 6184-1 standard)
 Lower explosion limit > 20 g/m³
 (standards ISO 6184/1-VDI 2263-ASTM E 1226)

Other data

Vapour pressure: none.
 Bulk density: 300 – 500 kg/m³ with condensed product.

Solubility:
 In water: dissolves very rapidly in water. The "powder" formed is insoluble.

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10 - Stability and reactivity

Stability: product is stable at normal storage temperatures.

Hazardous reactions

Conditions to avoid: rapid combustion in presence of liquid oxygen, ozone and strong oxidizing agents.
Substances to avoid: solvents and strong oxidizing agents (possible adsorption of their vapors by activated carbon).

Hazardous decomposition products: carbon oxides.

11 - Toxicological information

No adverse effects on human health to our knowledge under normal conditions of use.

Other information: LD50 oral (rat): > 10 g/kg

12 - Ecological information- General remarks

Mobility

In water: insoluble

Ecotoxicity: no specific risks for the environment.
Release of product contaminated by hazardous substances into environment is not allowed.

Other information: insoluble in aqueous medium, separation of the product possible by filtration or sedimentation.

13 - Disposal considerations

Product or residues

Appropriate method for removal: if product is pure: disposal in authorized landfill.
After usage (substances have been adsorbed): follow current regulations and decrees.

Contaminated packaging

Local measures: follow current regulations and decrees.

14 – Transport information

Product not classified as dangerous goods by transport regulations.

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15 – Regulatory information

Product does not fall under labelling regulations of dangerous substances.

Conform with all other applicable national regulation.

16 - Other information

The vertical lines on the left side indicate the modifications made to the precedent version.

“This data sheet completes the technical notices of utilization but does not replace them. The information provided is based on our current knowledge of the product at the time of publication. They are given in good faith. Moreover, the user’s attention should be drawn to the possible risks incurred if the product were used for other purposes than those for which it has been designed.

In any case, the data sheet does not release the user from knowing and applying all regulations related to his/her activity. He/she will be solely responsible for taking the necessary precautions related to the use of the product.”