

# SAFETY DATA SHEET

Pursuant to regulation 1907/2006/CE  
and regulation (UE) n° 453/2010



Date of issue 14/03/2011

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## SECTION 1: PRODUCT IDENTIFICATION AND PRODUCER / SUPPLIER

### 1.1 Product identification and producer/supplier

<b>Product identification:</b>	Extruded Activated Carbon
<b>Commercial name:</b>	CARBOSORB 54
<b>Customs Code:</b>	3802 10 00
<b>EINECS Number:</b>	931-328-0
<b>CAS Number:</b>	7440-44-0
<b>Molecular formula:</b>	C
<b>REACH registration number:</b>	01-2119488894-16-xxxx

### 1.2. RELEVANT IDENTIFIED USES OF SUBSTANCE OR PREPARATION AND RECOMMENDED USES

<b>Brief description:</b>	Adsorbent, Colorant, Catalyst carrier, Catalyst.
<b>Detailed:</b>	See annex.

### 1.3. INFORMATION ON SUPPLIER OF SAFETY DATA SHEET

<b>Company:</b>	Comelt S.r.l.
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### 1.4. IN A EMERGENCY PLEASE CONTACT

NEAREST POISON CENTER

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification

This product is not classified, Regulation (EC) No. 1272/2008 & Directive 67/548/EEC.

### 2.2. Label elements

No specific label elements required.

### 2.3. Other hazards

This product does not meet the criteria for PBT or vPvB.  
Under certain conditions, carbon dust/air mixtures can produce an explosive atmosphere.  
Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1. SOSTANZE

Substances	N° EINECS	N° CAS	%	REACH registration number
Activated Carbon	931-328-0	7440-44-0	100	01-2119488894-16-xxxx

Moisture content up to 15%

Impurities, classified and contributing to the classification of the substance: none.

## SECTION 4: FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

<b>Eye contact:</b>	Immediately flush with copious amounts of water (remove contact lenses, provided that it can be done easily). Obtain medical attention.
<b>Skin contact:</b>	Take off contaminated clothes; rinse the skin with water and soap. Obtain medical attention if irritation becomes apparent.
<b>Inhalation:</b>	Fresh air, rest. Obtain medical attention.
<b>Ingestion:</b>	Wash mouth and give two glasses of water to drink. Obtain medical attention.
<b>Most important symptoms and effects, both acute and delayed</b>	Contact with eye and skin and inhalation may cause irritation based on abrasive action of dust.

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<b>Indication of any immediate medical attention and special treatment needed</b>	No specific requirements are known.
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Spray-jet of water, foam.

### 5.2. Special hazards arising

Under certain conditions, carbon dust/air mixtures can produce an explosive atmosphere.  
Dangerous decomposition products: CO<sub>2</sub> and CO.

### 5.3 Advice for firefighters

Avoid stirring up dust clouds.

Standard fire-fighters personal protective equipment including self containing breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Breathing protection (mask filter type P2). Wear dust proof gloves.

### 6.2. Environmental precautions

No specific precautions required.

### 6.3 Methods and material for containment and cleaning up

To prevent dust formation spray with water prior to cleaning.

Scoop up spilled product and flush remaining product with plenty of water.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid stirring up dust clouds.

Keep dust clouds away from ignition sources.

See directive 1999/92/EG (ATEX 137) and related national legislation.

Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered.

Whenever workers enter a vessel containing activated carbon,

the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas be followed.

Appropriate protective equipment should be worn.

A good basic standard of occupational hygiene is advised.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep separated from oxidizing substances, unsaturated oils, easily absorbable gases or vapours, sources of direct heat, naked flames, other ignition sources and direct sun light.

Dry storage (RH < 70%) in the original undamaged packaging.

Storage below 50 °C. Natural ventilation.

If stored outside original packaging first perform a proper risk analysis.

### 7.3 Specific end uses(s)

See annex.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

Germany: Air limit value - Active Carbon alveolar fraction: 1.5 mg/m<sup>3</sup> (long term).

Germany: Air limit value - Active Carbon respirable fraction: 4 mg/m<sup>3</sup> (long term). Interim DNEL inhalation long term (repeated):

Industry workers: 3 mg/m<sup>3</sup>

Professional workers: 3 mg/m<sup>3</sup>

Consumer: 0.5 mg/m<sup>3</sup>

Appropriate monitoring procedure: Standard dust monitoring method

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## 8.2 Exposure controls

Engineering controls: see annex. Individual protection measures:

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-A good basic standard of occupational hygiene is advised. Environmental exposure controls: not required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMAZIONI SULLE PROPRIETÀ FISICHE E CHIMICHE FONDAMENTALI

<b>Appearance:</b>	Black pellets
<b>Odour:</b>	none
<b>Odour threshold:</b>	Not applicable.
<b>pH:</b>	Aqueous suspension: alkaline.
<b>Melting point/freezing point:</b>	N.A.
<b>Boiling point/ boiling range:</b>	N.A.
<b>Flash point:</b>	N.A.
<b>Evaporation rate:</b>	Evaporation not relevant.
<b>Flammability (solid, gas)</b>	Not classified as flammable solid.
<b>Explosive limits:</b>	Lower explosion limit approx. 30 g/m <sup>3</sup>
<b>Vapour pressure:</b>	Not applicable, melting point > 300°C.
<b>Vapour density:</b>	Not applicable, melting point > 300°C.
<b>Relative density:</b>	Approx. 2100 kg/m <sup>3</sup>
<b>Solubility:</b>	Insoluble in water and organic solvents.
<b>Partition coefficient: n-octanol/water:</b>	Not applicable, substance is insoluble.
<b>Auto-ignition temperature:</b>	>400 °C
<b>Decomposition temperature:</b>	>1000°C.
<b>Viscosity:</b>	Not applicable, substance is an insoluble solid.
<b>Explosive properties:</b>	Not applicable, there are no chemical groups associated with explosive properties present in the substance
<b>Oxidising properties:</b>	Not applicable, substance does not contain oxygen or halogen atoms that are chemically bonded to nitrogen or oxygen atoms
<b>Other information</b>	Electrical conductivity: electrically conductive. Apparent density: 200 - 600 kg/m <sup>3</sup> .

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

This product shows no reactivity under the specified conditions of storage, shipment and use.

### 10.2. Chemical stability

This product is stable under the specified conditions of storage, shipment and use.

### 10.3. Possibility of hazardous reactions

Not applicable.

### 10.4. Conditions to avoid

Not applicable.

### 10.5 Incompatible materials

Keep away from strong oxidising agents.

### 10.6 Hazardous decomposition products

CO<sub>2</sub>, CO.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute toxicity:

Based on available data, the classification criteria are not met.  
-Oral: Acute toxic class method (OECD 423): LD50 > 2000 mg/kg bw (female rat).  
-Inhalation: Standard acute method: LC50 > 8.5 mg/L.  
-Skin: absorption highly unlikely. No health effects known.

### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.  
-Acute Dermal Irritation/Corrosion: In vivo skin irritation test (OECD 404): not irritating.

### Serious eye damage/irritation:

Based on available data, the classification criteria are not met.  
-Acute Eye Irritation / Corrosion: In vivo eye irritation test (OECD 405): not irritating.

### Skin sensitisation:

Based on available data, the classification criteria are not met.  
-Local Lymph Node Assay: not sensitising (OECD 429).

### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.  
Gene mutation in bacteria (Bacterial Reverse Mutation Assay/Ames): not mutagenic (OECD 471).  
In vitro Mammalian Chromosome Aberration Test: non-clastogenic (OECD 473).  
In vitro Mammalian Cell Gene Mutation Test: non-mutagenic (OECD 476).

### Carcinogenicity

No study performed.  
The substance was found not to possess genotoxic properties in three in vitro genotoxicity studies (not a mutagen Cat. 3) and systemic effects (hyperplasia and/or preneoplastic lesions) were not indicated in a supporting chronic toxicity study in three species.

### Reproductive toxicity:

No key information available.

### STOT-single exposure:

No data available

### STOT-repeated exposure:

No data available

### Aspiration hazard:

No data available

### Possible symptoms / effects

Contact with eye and skin and inhalation may cause irritation based on abrasive action of dust. No delayed or chronic effects from short and long-term exposure are known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Non toxic. The substance is highly insoluble in water and the substance is unlikely to cross biological membranes. No adverse ecological effects are known.

### 12.2. Persistence and degradability

Substance is a refractory material and not amenable to break down by any natural chemical or enzymatic processes.

### 12.3 Bioaccumulative potential

Substance is not bioaccumulative. The particles are not soluble and their size will hamper passing membranes as the substance consists of particles with sizes approximately > 0.5 µm.

### 12.4. Mobility in soil

Not applicable. The substance is highly insoluble in water.

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## 12.5. Result of PBT and vPvB assessment

This product does not meet the criteria for PBT or vPvB.  
See section 12: Bioaccumulative potential.

## 12.6 Other adverse effects

Unknown.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods:

Waste hierarchy to be followed (Directive 2008/98/EC on waste, article 4).

## SECTION 14: TRASPORT INFORMATION

### Land (rail/oad) RID/ADR

Not classified

### Sea (IMDG)

Not classified

### Air (ICAO/IATA)

Not classified

### Note:

This product concerns a steam activated carbon and is therefore not to be classified as a dangerous good. See ADR special provision 646.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation

Not applicatile

### 15.2 Chemical safety assessment

Chemical Safety Assessment has been performed. See annex.

## SECTION 16: OTHER INFORMATION

### Main references and data sources:

Directive n.1967/548/EEC (and subsequent amendments and adjustments)  
Directive n.1999/45/EC (and subsequent amendments and adjustments)  
Rules EC n° 1272/2008 (CLP) (and subsequent amendments and adjustments)  
Rules EC n° 1907/2006 (REACH) (and subsequent amendments and adjustments)

### Acronimi:

<b>ACGIH:</b>	American Conference of Industrial Hygienists
<b>ADR:</b>	European Agreement relativity or the International Carriage of Dangerous Goods by Road
<b>CAS:</b>	chemical abstracts service
<b>CLP:</b>	classification, labeling and packaging
<b>DL<sub>50</sub>:</b>	lethal dose for 50% of the organisms
<b>EINECS:</b>	European chemical Substances information System
<b>IATA:</b>	International Air Transport Association
<b>IMDG Code:</b>	International Maritime Dangerous Goods Code
<b>PBT:</b>	persistent, bioaccumulative and toxic
<b>REACH:</b>	Registration, Evaluation, Authorisation and Restriction of Chemicals
<b>RID:</b>	Regulation on the inland transport of dangerous goods by rail
<b>TWA:</b>	Threshold limit value
<b>vPvB:</b>	very persistent, very bioaccumulative

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## Annex EXPOSURE SCENARIOS IDENTIFIED USES + RISK MANAGEMENT MEASURES

### Substance

Substance name: [931-328-0] Activated Carbon - High Density Skeleton  
Form: Granular (low dustiness)  
Classification: Non-classified

### Hazards and Chemical Safety Report (CSR)

Environmental hazards: not applicable (not classified)  
Basis for modelling in CSR: not included in CSR

Health hazards: not applicable (not classified)

Basis for modelling in CSR: Interim dust inhalation Derived No Effect Level: 3 mg/m<sup>3</sup>  
used to derive Interim Risk Management Measures required  
due to waiving of Annex VIII tests for repeated dose toxicity  
and reproductive toxicity

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