

# Activated Carbon, High Density Skeleton

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 31/10/2014

Revision date:

:

Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form	: Substance		
Trade name	: AIRPEL <sup>®</sup> 10	ORGANOSORB <sup>®</sup> 10-CO	PARADIOX <sup>®</sup> 220-35
	AIRPEL <sup>®</sup> 15	ORGANOSORB <sup>®</sup> 10	PARADIOX <sup>®</sup> 220-55
	AIRPEL <sup>®</sup> PLUS	ORGANOSORB <sup>®</sup> 10- AA	PARADIOX <sup>®</sup> 220-75
	AIRPEL <sup>®</sup> SUPER	ORGANOSORB <sup>®</sup> 11- AA	PARADIOX <sup>®</sup> 200-65 LI
	AIRPEL <sup>®</sup> ULTRA	ORGANOSORB <sup>®</sup> 11AL-CO	ORGANOSORB <sup>®</sup> 200-1 WB
	AIRPEL <sup>®</sup> 20	ORGANOSORB <sup>®</sup> 11	ORGANOSORB <sup>®</sup> DLS 15-034
	PARADIOX <sup>®</sup> 30-KBK	ORGANOSORB <sup>®</sup> 11-CO	ORGANOSORB <sup>®</sup> 200-35
	OXYSORB <sup>®</sup> 10-DD	ORGANOSORB <sup>®</sup> 12-AA	ORGANOSORB <sup>®</sup> 200-55
	OXYSORB <sup>®</sup> 10	ORGANOSORB <sup>®</sup> 14-AA	
		ORGANOSORB <sup>®</sup> 15-AZ	
		ORGANOSORB <sup>®</sup> 15	
		ORGANOSORB <sup>®</sup> 15-CO	
		ORGANOSORB <sup>®</sup> 9-CO	
		ORGANOSORB <sup>®</sup> CS	
		ORGANOSORB <sup>®</sup> PLUS-CO	
		ORGANOSORB <sup>®</sup> 100-1-20	
		ORGANOSORB <sup>®</sup> 20	
		ORGANOSORB <sup>®</sup> 20-AA	
		ORGANOSORB <sup>®</sup> 20-CO	
		ORGANOSORB <sup>®</sup> 10-AZ	
Name	: Activated Carbon, High Density Skeleton		
EC no	: 921-328-0		
CAS No	: 7440-44-0		
REACH registration No	: 01-2119488894-16-0011		

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Use as an adsorbent in industrial, professional and consumer setting

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

DESOTEC N.V.  
Regenbeekstraat 44  
8800 Roeselare - Belgium  
T +32 (0) 51 24 60 57  
[reach@desotec.com](mailto:reach@desotec.com)

#### 1.4. Emergency telephone number

T +32 (0) 51 24 60 57 (during office hours 08-17h)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Other hazards not contributing to the classification : 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 vessels oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : Activated Carbon, High Density Skeleton

CAS No : 7440-44-0

EC no : 931-328-0

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Activated Carbon, High Density Skeleton (Main constituent)	(CAS No) 7440-44-0 (EC no) 931-328-0 (REACH-no) 01-2119488894-16-0011	100	Not classified

  

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Activated Carbon, High Density Skeleton (Main constituent)	(CAS No) 7440-44-0 (EC no) 931-328-0 (REACH-no) 01-2119488894-16-0011	100	Not classified

Full text of P- and H-phrases: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Remove all contaminated clothing and footwear. Wash with plenty of soap and water. If case of redness or irritation, call a doctor.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult an eye specialist.

First-aid measures after ingestion : Rinse mouth out with water. Give water to drink. If you feel unwell, seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause slight irritation to the skin.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : On ingestion in large quantities : Gastrointestinal complaints.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Powder. Carbon dioxide (CO<sub>2</sub>). Foam.

Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : After a fire, smoldering hotspots within the activated carbon may be present for a long time.

Explosion hazard : Activated carbon which has been allowed to smolder for a long time in a confined space may accumulate carbon monoxide above its lower explosion limit.

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### 5.3. Advice for firefighters

- Firefighting instructions : Cool down the containers exposed to heat with a water spray. Contain the extinguishing fluids by bunding.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Avoid contact with skin and eyes. Do not breathe dust.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate spillage area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

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

- For containment : Sweep up or vacuum up the product. Avoid raising powdered materials into airborne dust.
- Methods for cleaning up : Wash contaminated area with large amounts of water.
- Other information : Dispose of in accordance with relevant local regulations.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : 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 vessels oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.
- Precautions for safe handling : Ensure good ventilation of the work station. Avoid creating or spreading dust. Avoid contact with skin and eyes. Remove all sources of ignition.
- Hygiene measures : Do not eat and do not drink during use. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

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

- Technical measures : Provide local exhaust or general room ventilation.
- Storage conditions : Store in dry, cool, well-ventilated area. Keep container tightly closed. Keep away from heat. Keep away from sources of ignition. Keep away from incompatible materials. Protect from moisture. Protect from sunlight.
- Incompatible products : Strong acids. Strong oxidizing agents.
- Packaging materials : Original packaging.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Activated Carbon, High Density Skeleton (7440-44-0)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	3 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - local effects, inhalation	0,5 mg/m <sup>3</sup>

### 8.2. Exposure controls

- Appropriate engineering controls : Provide local exhaust or general room ventilation. Work procedures for potentially low oxygen areas should be followed. Alternatively the room may be fitted with oxygen level sensors having an alarm setting at 18 vol. %.
- Hand protection : Protective gloves.
- Eye protection : Safety glasses with side shields.
- Skin and body protection : Protective clothing.
- Respiratory protection : Dust production: dust mask with filter type P2.

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Environmental exposure controls : Take all necessary precautions to avoid the accidental release of the product outside, due to the rupture of containers or transfer systems.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Colour : Black.  
Odour : odourless.  
Odour threshold : No data available  
pH : 6,8  
Relative evaporation rate (butyl acetate=1) : No data available  
Melting point : > 1000 °C  
Freezing point : No data available  
Boiling point : ≈ 1000 °C  
Flash point : No data available  
Auto-ignition temperature : 350 - 450 °C  
Decomposition temperature : No data available  
Flammability (solid, gas) : The product is not flammable  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : 2,31  
Solubility : Water: Insoluble  
Log Pow : No data available  
Viscosity, kinematic : Not applicable  
Viscosity, dynamic : Not applicable  
Explosive properties : Not explosive.  
Oxidising properties : Non oxidizing material according to EC criteria.  
Explosive limits : No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

#### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Explosive when mixed with : Strong oxidizing agents (chlorine, liquid oxygen, permanganate, ozone...).

#### 10.4. Conditions to avoid

High temperature (> 200 °C). Direct sunlight.

#### 10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Activated Carbon, High Density Skeleton (7440-44-0)	
LD50 oral rat	> 2000 mg/kg (OECD 423 method)
LC50 inhalation rat	> 8,5 mg/l/1h (OECD 403 method)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
Not irritating  
(OECD 404 method)  
pH: 6,8

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Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) Not irritating (OECD 405 method) pH: 6,8
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met) Ames test (with and without metabolic activation) : negative
Carcinogenicity	: Not classified (No information available)
Reproductive toxicity	: Not classified (No information available)
Specific target organ toxicity (single exposure)	: Not classified (No information available)
Specific target organ toxicity (repeated exposure)	: Not classified (No information available)
Aspiration hazard	: Not classified (Not applicable)

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : To our knowledge, the product does not present any particular risk, under normal conditions of use.

### 12.2. Persistence and degradability

#### Activated Carbon, High Density Skeleton (7440-44-0)

Persistence and degradability	Not readily biodegradable.
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### 12.3. Bioaccumulative potential

#### Activated Carbon, High Density Skeleton (7440-44-0)

BCF	< 10
Bioaccumulative potential	Low bioaccumulation potential.

### 12.4. Mobility in soil

#### Activated Carbon, High Density Skeleton (7440-44-0)

Ecology - soil	The product is not mobile in soil.
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### 12.5. Results of PBT and vPvB assessment

#### Activated Carbon, High Density Skeleton (7440-44-0)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Other adverse effects : Might be harmful to aquatic environment due to the modification of the pH.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of in accordance with relevant local regulations.
European List of Waste (LoW) code	: 15 02 03 - absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	: Not applicable
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#### IMDG

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Transport hazard class(es) (IMDG) : Not applicable

### IATA

Transport hazard class(es) (IATA) : Not applicable

#### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

##### 14.6.2. Transport by sea

##### 14.6.3. Air transport

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources : ECHA - European Chemical Agency.

Other information : This safety data sheet has been written in conformity with the Annex II of the Regulation (EC) 1907/2006 (REACH).

Safety data sheet established by : LISAM SERVICES - TELEGIS  
17, Rue de la Couture F-60400 PASSEL  
Safety Made Easy with [www.lisam.com](http://www.lisam.com).

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*