

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name : ACTIVATED CARBON  
 EC-No. : 264-846-4  
 CAS-No. : 64365-11-3  
 UN-No. (ADR) : 1362  
 Product code : 101015xxx  
 Formula : C

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

Recommended uses and restrictions : For laboratory use only

#### 1.3. Supplier's details

Labchem (Pty)Ltd  
 6 Wakefield Road  
 Founders Hill  
 1609 Johannesburg - South Africa  
 T +27 11 452 1116 - F +27 86 588 0293  
[techlab@labchem.co.za](mailto:techlab@labchem.co.za) - [www.labchem.co.za](http://www.labchem.co.za)

#### 1.4. Emergency telephone number

Emergency number : +27 11 452 1116

### SECTION 2: Hazards identification

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

##### Classification according to the United Nations GHS

Acute toxicity (oral) Not classified

Full text of H statements : see section 16

#### 2.2. Label elements

##### Labelling according to the United Nations GHS

No labelling applicable

#### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
activated carbon (Main constituent)	(CAS-No.) 64365-11-3	≥ 50	Acute Tox. Not classified (Oral)

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.  
 First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.  
 First-aid measures after skin contact : Rinse with water. Take victim to a doctor if irritation persists. Wash skin with plenty of water.  
 First-aid measures after eye contact : Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists. Rinse eyes with water as a precaution.  
 First-aid measures after ingestion : Rinse mouth with water. Do not induce vomiting. Call Poison Information Centre ([www.big.be/antigif.html](http://www.big.be/antigif.html)). Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.  
 Symptoms/effects after skin contact : Slight irritation. Red skin.  
 Symptoms/effects after eye contact : Slight irritation.

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According to SANS 10234:2019 and SANS 11014:2010

Symptoms/effects after ingestion	: Unlikely to cause harmful effects.
Potential adverse human health effects and symptoms	: Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Slightly harmful in contact with skin. Slightly irritant to respiratory organs. Slightly irritant to eyes.

### 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	: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

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

Fire hazard	: DIRECT FIRE HAZARD: Non-flammable. In finely divided state: increased fire hazard. Spontaneous heating increases the fire hazard. INDIRECT FIRE HAZARD: Heating increases the fire hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	: DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".
Hazardous decomposition products in case of fire	: Upon combustion: CO and CO2 are formed.

### 5.3. Advice for firefighters

Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

No additional information available

#### 6.1.1. For non-emergency personnel

Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.
Emergency procedures	: Ventilate spillage area. Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

#### 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".
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### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Provide equipment/receptacles with earthing. Powdered form: no compressed air for pumping over spills.
Methods for cleaning up	: Mechanically recover the product. Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
Other information	: Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid raising dust. Take precautions against electrostatic charges. Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no compressed air for pumping over. Keep container tightly closed.
Hygiene measures	: Observe strict hygiene. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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According to SANS 10234:2019 and SANS 11014:2010

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

Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage area	: Store in a dry area. Keep container in a well-ventilated place. Provide the tank with earthing. Meet the legal requirements.
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. halogens. oils-fats.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: synthetic material. glass.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

ACTIVATED CARBON (64365-11-3)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Carbon Black
OEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup>
OEL STEL (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Regulatory reference	Government Notice. R: 1179

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Materials for protective clothing	: GIVE GOOD RESISTANCE: rubber
Hand protection	: Gloves
Eye protection	: Safety glasses. In case of dust production: protective goggles. Safety glasses
Skin and body protection	: Protective clothing
Respiratory protection	: Dust production: dust mask with filter type P2. High dust production: self-contained breathing apparatus

#### Personal protective equipment symbol(s):



### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Amorphous solid. Powder. Grains. Flakes. Pellets/tablets.
Molecular mass	: 12.01 g/mol
Colour	: Black.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 8 – 10
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: 3650 °C
Freezing point	: Not applicable
Boiling point	: 4200 °C
Flash point	: Not applicable
Auto-ignition temperature	: 300 – 375 °C
Decomposition temperature	: No data available

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According to SANS 10234:2019 and SANS 11014:2010

Flammability (solid, gas)	: Non flammable.
Vapour pressure	: < 0.1 hPa (20 °C)
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: Not applicable
Relative density	: 1.8 – 2.2
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: Insoluble in water. Substance sinks in water. Insoluble in organic solvents. Water: < 0.1 g/100ml Ethanol: < 0.2 g/100ml
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

### 9.2. Other information

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts exothermically with (strong) oxidizers: (increased) risk of fire/explosion.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ACTIVATED CARBON (64365-11-3)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)
LC50 inhalation rat (mg/l)	> 64.4 mg/l. (Rat, Inhalation)

Skin corrosion/irritation	: Not classified pH: 8 – 10
Serious eye damage/irritation	: Not classified pH: 8 – 10
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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According to SANS 10234:2019 and SANS 11014:2010

Potential adverse human health effects and symptoms : Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Slightly harmful in contact with skin. Slightly irritant to respiratory organs. Slightly irritant to eyes.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

Ecology - air : Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014).

Ecology - water : No water pollutant (surface water). No data available on ecotoxicity.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### 12.2. Persistence and degradability

ACTIVATED CARBON (64365-11-3)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

#### 12.3. Bioaccumulative potential

ACTIVATED CARBON (64365-11-3)	
Bioaccumulative potential	No bioaccumulation data available.

#### 12.4. Mobility in soil

ACTIVATED CARBON (64365-11-3)	
Mobility in soil	No additional information available

#### 12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods




Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized dump.

Additional information : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

### SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
<b>14.1. UN number</b>		
1362	1362	1362
<b>14.2. Proper Shipping Name</b>		
CARBON, ACTIVATED	CARBON, ACTIVATED	Carbon, activated
<b>14.3. Transport hazard class(es)</b>		
4.2	4.2	4.2
		 Not applicable
<b>14.4. Packing group</b>		
III	III	III

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According to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA
<b>14.5. Environmental hazards</b>		
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available		

### 14.6. Special precautions for user

#### - SANS

Transport regulations (UN)	: Not subject
Special provisions (SANS)	: 223
Limited quantities (SANS)	: 0
Limited quantities (SANS)	: 0
Packagings, large packagings and IBCs	: P002, IBC08, LP02
Packing instructions (SANS)	
Packagings, large packagings and IBCs Special packing instructions (SANS)	: PP11, B3
Portable tank and bulk containers instructions (SANS)	: T1
Portable tank and bulk container special provisions (SANS)	: TP33

#### - IMDG

Transport regulations (IMDG)	: Not subject
Special provisions (IMDG)	: 223, 925
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002
Special packing provisions (IMDG)	: PP11, PP31
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-J - SPILLAGE SCHEDULE Juliet - WETTED EXPLOSIVES AND CERTAIN SELF-HEATING SUBSTANCES
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Black powder or granules. Liable to heat slowly and ignite spontaneously in air. The material as offered for shipment should have been sufficiently heat-treated and should be cooled down to ambient temperature before packing.

#### - IATA

Transport regulations (IATA)	: Not subject
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 472
CAO packing instructions (IATA)	: 472
CAO max net quantity (IATA)	: 0.5kg
Special provisions (IATA)	: A3
ERG code (IATA)	: 4L

### 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 national regulations specific for the product

Regulatory reference	: SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.
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## SECTION 16: Other information

Issue date	: 03/07/2020
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## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

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Revision date : 03/07/2025

SDS South Africa

*The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is intended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.*