



# INTERCHARCOAL

INTERNATIONAL CHARCOAL S.A.S

## MATERIAL SAFETY DATA SHEET

MSDS Preparation Date: 21-05-2015

According to instructions of our custom, **INTERNATIONAL CHARCOAL SAS** reports the Material Safety Data Sheet of coal as follows.

### Section 1 – Chemical Product and Company Identification

MSDS Name	Colombian CHARCOAL
Catalog Numbers	1333-86-4
Synonyms	
Company Identification	<b>INTERNATIONAL CHARCOAL SAS</b>
Address	Calle 74 # 46-78 Of. 12 Ed. Plaza 74 Barranquilla - Colombia
Office Telephone	+ 57 5 3 85 40 90
24h emergency phone	+ 57 317 4 04 26 07

### Section 2 - Composition, Information & Ingredients

General	Heterogeneous mixture of organic and inorganic materials	
Reference No.	Chemical Name N.A.	%
	Carbon (Dry)	75,16
	Volatiles (As-received)	19,78
	Water (H2O)	4,38
	Sulphur (As-received)	0,04
	Ash (As-received)	3,97

### Section 3 - Hazards Identification

Material Appearance	Black solid
Caution	Potential for spontaneous combustion exists if proper care is not exercised in storage. Dust might be generated if proper care is not exercised during handling and storage.
Effect on health	No anticipated harm to the people handling the coal in bulk is expected to be caused. Suitable clothing and protective equipment, Such as overalls, masks, gloves, safety hats and shoes should be used during handling and transportation

Address : Calle 74 No. 46 - 78 Of. 12  
Tel: +57 5 3854090 / Mob: 3174042607  
Barranquilla - Colombia



# INTERCHARCOAL

INTERNATIONAL CHARCOAL S.A.S

## **Section 4 -**

### **First Aid Measures**

Eyes	Flush with clear water until irritation subsides for 15 minutes. If irritation persists, call a physician.
Skin	Wash thoroughly the affected area with soap and water. Remove abrasive coal fines and dust from open wounds.
Ingestion	If ingested, DO NOT induce vomiting, call a physician immediately. If victim is conscious, give 2-4 glasses of milk or water.
Inhalation	If overexposed to coal dust, remove from further exposure to fresh air immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen if available, and call a physician if the problem persists.

## **Section 5 -**

### **Fire Fighting Measures**

General Information	In case of self-ignition in storage piles, hot spots should be moved and spread several times on the ground surface with the aid of a track dozer. Afterwards, it should be compacted.
Extinguishing Media	In case of fire, use dry chemical, carbon dioxide or chemical foam.
Autoignition Temperature	>150 ° F (66 ° C)
Flash Point	Correct according to IMO regulation.
NFPA Rating	N.A.
Explosion Limits	N.A.

## **Section 6 -**

### **Accidental Release Measures**

General Information	
Spills	While recovering the product, minimize generation of dust. Avoid breathing dust and skin contact, using proper clothing and safety equipment. If required, ventilate the area. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable





# INTERCHARCOAL

INTERNATIONAL CHARCOAL S.A.S

governmental regulations.

## section 7 -

### Handling and Storage

Handling	Minimize dust generation during handling. Use water spray under controlled conditions if required. Ensure adequate ventilation. Use product with caution near static electricity if dust concentration exists. Avoid contact of product with open flame.
Storage	Store preferably in a cool, dry, well ventilated area. Build stockpiles in layers and compact to retard access of air into the coal and oxidation, and to reduce size segregation. If possible limit size of single piles to 100 KT. Try to use oldest coals first (FIFO). Avoid drafts of air through the piles. Monitor coal temperature during storage.

## Section 8 -

### Exposure Controls, Personal Protection

Engineering Controls	Temperature monitoring. Dust concentration monitoring in closed areas.	
Exposure Limits	For coal dust breathable : 0.9 mg/m <sup>3</sup> (Threshold limit value)	
Personal Protective equipment	Eyes	Safety glasses
	Skin	Safety gloves.
	Clothing	Overall
	Respirator	Use masks in case of confined/closed areas with dust.

## Section 9 -

### Physical & Chemical Properties

Physical State	Solid
Appearance	Black
Odor	Odourless
PH	N.A.
Vapor Pressure	N.A.
Vapor Density	N.A.
Evaporation Rate	N.A.
Viscosity	N.A.
Boiling Point	N.A.
Freezing/Melting Point	< 0 ° Depending on moisture content.
Decomposition Temperature	N.A.
Solubility	In water, negligible, less than 0.1%
Specific gravity/density	0.85 - 1.00
Molecular Formula	N.A.

Address : Calle 74 No. 46 - 78 Of. 12  
Tel: +57 5 3854090 / Mob: 3174042607  
Barranquilla - Colombia



# INTERCHARCOAL

INTERNATIONAL CHARCOAL S.A.S

Molecular Weight	N.A.
------------------	------

## Section 10 -

## Stability & Reactivity

Chemical Stability	Stable under normal ambient temperatures. May self-heat if open piles are not properly handled.
Conditions to avoid	Incompatible materials, ignition sources, dust concentration, excessive moisture addition, air drafts through the stockpiles.
Incompatibilities with other materials	Alkalimetals, lead oxide, manganese oxide, dibenzoyl peroxide, iron oxide, liquid oxygen, metallic salts, molybdenum oxide, nitrobenaldehyde, potassium hydroxide, sodium hydrogen carbonate, chlorinated parafin, sodium tetrahydroborate, unsaturated oils.
Hazardous decomposition products	Carbon monoxide and dioxide.
Hazardous Polymerization	Not reported.

## Section 11 -

## Toxicological Information

Carcinogenicity	N.A.		
Epidemiology	N.A.		
Teratogenicity	N.A.		
Reproductive effects	N.A.		

## Section 12 -

## Ecological Information

Ecotoxicity	N.A.
Environmental	Coal dusting should be mitigated by water spray under controlled conditions. Spillage into water courses should be avoided by diking or impounding.
Physical	N.A.
Chemical	N.A.

Address : Calle 74 No. 46 - 78 Of. 12  
Tel: +57 5 3854090 / Mob: 3174042607  
Barranquilla - Colombia



Other Studies	N.A.
---------------	------

**Section 13 -**

**Disposal Consideration**

General	N.A.
---------	------

**Section 14 -**

**Transport Information**

General	Cargo is not classified as dangerous goods under UN1362/4.2, because it passed the United Nations Manual of Tests and Criteria (see 33.3.1.3.3) for self-heating substances
---------	---

**Section 15 -**

**Regulatory Information**

General	Assure conformity with applicable governmental regulations.
---------	---

**Section 16 -**

**Additional Information**

General	
---------	--



Inspectorate, Coal Operations Marine

Address : Calle 74 No. 46 - 78 Of. 12  
Tel: +57 5 3854090 / Mob: 3174042607  
Barranquilla - Colombia