

SECTION 1: Identification of the substance/mixture and the company/undertaking**1.1 Product Identifier**

Product name : **Corichar**
Ingredient : Carbon
Synonyms : Biochar, charcoal, wood charcoal, wood char, almond char, carbon

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

Identified uses : Carbon Sequestration, Soil Amendment, Soil Conditioner, Carbon Black.

1.3 Details of the supplier of the safety data sheet

Company : Corigin Solutions Inc.
154 Hawk Drive
Merced, CA 95341, United States

Telephone : (949) 677-6230

1.4 Emergency telephone : (800) 222-1222 (California Poison Control System)
: (949) 677-6230 (Corigin)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****OSHA Hazards**

None of the chemicals in this product are considered Highly Hazardous by OSHA

GHS Classification

Flammable Solid : Category 2
Acute toxicity, Inhalation : Category 5
Serious Eye Damage/Irritation : Category 2B
Aspiration Hazard : Category 2
Self-reactive Substances : Type F

2.2 GHS Label elements, including precautionary statements

Pictogram : 

Signal word : Warning

Hazard statement(s)

H228 : Flammable Solid
H333 : May be harmful if inhaled
H320 : Causes eye irritation
H305 : May be harmful if swallowed and enters airways
H242 : Heating may cause a fire

2.3 Precautionary statement(s)

P210 : Keep away from heat/sparks/open flames/hot surfaces - No Smoking

P261 : Avoid breathing dust

P280 : Wear appropriate respirator, safety glasses, protective gloves/protective clothing.

2.3 Description of other hazards:

Inflammable solid. Powderous charcoal can be easily ignited and burns vigorously. Containers may ignite or explode if exposed to fire. Auto ignition temperature of freshly produced powderous charcoal is low at ambient temperature. Auto ignition of densified biochar (pellets or briquettes) is higher at 350°C. Carbon derived from pyrolyzed almond shells.

SECTION 3: Composition/information on ingredients

3.1 Main Ingredient: Carbon derived from pyrolyzed almond shells.

CAS Registry Number: 7440-44-0

Percent: >50%

Hazardous: Yes

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

If inhaled : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact : Wash off with soap and plenty of water. Consult a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed: See Sections 2.2 and 11

4.3 Indications of any immediate medical attention and special treatment needed: No data available

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water, Foam, Carbon Dioxide (CO₂), Dry Powder extinguishers

Unsuitable extinguishing media : For this substance no limitations of extinguishing agents are given.

5.2 Special hazards arising from this substance or mixture: Carbon Oxides

5.3 Advice for firefighters: Stay in danger area only with self-contained breathing apparatus.

5.4 Further information: none

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Sweep up or vacuum up spills for recovery or disposal. A dust respirator may be required during clean up.

6.2 Environmental precautions:

Dispose in accordance with federal, state and/or local regulations. Containment in an airtight sealed container is recommended.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene Measures: Proper personal protective equipment to prevent inhalation, skin, and eye contact should be utilized when handling material in storage. Store away from heat sources and prevent smoking or open flame near stored materials.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Keep container sealed tightly closed in a dry and well-ventilated place.

Keep away from heat and sources of ignition.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Ingredients with workplace control parameters: Contains no substances with occupational exposure limit values

8.2 RESPIRATORY PROTECTION:

No protection required for handling biochar unless there is excessive dust associated. Use approved dust respirator.
P100 type ¼ face mask.

8.2 EYE SHEILDS:

Appropriate eye protection should be utilized

8.3 PROTECTIVE GLOVES:

Recommended to reduce skin contact.

8.4 OTHER PROTECTIVE EQUIPMENT:

No special clothing required unless excessive dust is associated with handling. Use clean body-covering work clothing.

8.4 VENTILATION:

Whenever possible/ local exhaust ventilation should be used to meet TLV requirements.

8.5 HYGIENIC PRACTICES:

Follow good hygienic practices.

8.6 EXPOSURE CONTROLS

Appropriate engineering controls: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

8.7 PERSONAL PROTECTIVE EQUIPMENT

Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses required.

Skin protection: Proper use of gloves required when handling.

Body protection: Proper protective clothing required when handling.

Respiratory protection: Is required when vapors/aerosols are generated.

Control of environmental exposure: Sweep up and dispose of according to local, State and Federal laws.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form	: Solid
	Color	: Black
b) Odor		: None
c) Odor threshold		: n/a
d) pH		: n/a
e) Melting/freezing point		: n/a
f) Boiling point		: n/a
g) Flash point		: No data available
h) Evaporation rate		: No data available
i) Flammability (solid, gas)		: No data available
j) Upper/lower flammability or explosive limits		: No data available
k) Vapor pressure		: No data available
l) Vapor density		: No data available
m) Density		: 10-15lbs/ft3
	Relative density	: No data available
n) Water solubility		: Not soluble in water
o) Partition coefficient		: No data available
p) Auto ignition temperature		: No data available
q) Decomposition temperature		: No data available
r) Viscosity		: No data available
s) Explosive properties		: No data available
t) Oxidizing properties		: No data available

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	: Hazardous decomposition products formed under fire conditions. Carbon oxides. (See Section 5.2)
10.1 Reactivity	: No data available
10.2 Chemical stability	: Stable under recommended storage conditions
10.3 Possibility of hazardous reactions	: No data available
10.4 Conditions to avoid	: Heating, fire
10.5 Incompatible materials	: Oxidizing agents

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral	: No data available
Inhalation	: Material may be an irritant to mucous membranes and respiratory tract
LD50 Dermal	: Material may cause skin irritation.

Other information on acute toxicity : No data available

Skin irritation : No data available

Serious eye damage/eye irritation : No data available

Respiratory or skin sensitization : No data available

Germ cell mutagenicity : No data available

Carcinogenicity

IARC	: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity : No data available

Specific target organ toxicity - single exposure : Inhalation - May cause respiratory irritation

Specific target organ toxicity - repeated exposure : No data available

Aspiration hazard : No data available

11.2 Additional information : RTECS: ZD0370000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological information

12.1 Toxicity : No data available

12.2 Persistence and degradability : No data available

12.3 Bioaccumulative potential : No data available

12.4 Mobility in soil : No data available

12.5 Results of PBT and vPvB assessment : No data available

12.6 Endocrine disrupting properties : No data available

12.7 Other adverse effects : No data available

SECTION 13: Waste disposal

13.1 Waste treatment methods: Dispose of contents/containers in accordance to local, regional and Federal regulations

SECTION 14: Transport information

DOT regulations: Charcoal/Activated Carbon/Carbon

- **Hazard class: 4.2, as with activated carbon, this product is not considered self-heating**
- **Land transport ADR/RID (cross-border): N/A**
- **ADR/RID class: N/A**
- **Maritime transport IMDG: N/A, not a marine pollutant**
Air transport ICAO-TI and IATA-DGR: N/A
- **ICAO/IATA Class: N/A**

SECTION 15: Regulatory information

US Federal Regulations:

SARA Section 355 (extremely hazardous substances): No TPQ or RQ associated with this product

SARA Sec 311/312: Acute (yes); Chronic (no); Fire (no); Release of Pressure (no); Reactivity (no)

SARA Section 313 (specific toxic chemical listings): Not reportable under Sec 313 Title III and 40 CFR Part 372

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs): Not considered an air pollutant with no ozone depleting substances

TSCA (Toxic Substances Control Act): All components of this product are listed on the TSCA Inventory

OSHA: None of the chemicals in this product are considered Highly Hazardous by OSHA

California Prop. 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16: Other information

Further information : The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Corigin Solutions Inc shall not be held liable for any damage resulting from handling or from contact with the above product.