



The Chemical Company

# Safety Data Sheet

## MOTHEREARTH D

Revision date : 2012/03/20  
Version: 2.0

Page: 1/8  
(30473439/SDS\_CPA\_US/EN)

### 1. Product and Company Identification

Company  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

Registrant:  
Whitmire Micro-Gen Research Laboratories, Inc.  
3568 Tree Court Industrial Blvd.  
St. Louis, MO 63122

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Substance number: 000000417473  
Synonyms: Diatomaceous earth

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### 2. Hazards Identification

#### Emergency overview

CAUTION:  
KEEP OUT OF REACH OF CHILDREN.  
KEEP OUT OF REACH OF DOMESTIC ANIMALS.  
Moderately irritating to the eyes.  
Avoid contact with the skin, eyes and clothing.  
Avoid inhalation of dusts.  
Wash thoroughly after handling.

See Product Label for additional precautionary statements.

State of matter: solid  
Colour: white  
Odour: earthy

#### Potential health effects

##### **Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

##### **Acute toxicity:**

Relatively nontoxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

##### **Irritation / corrosion:**

May cause slight but temporary irritation to the eyes. May cause slight irritation to the skin.

# Safety Data Sheet

## MOTHEREARTH D

Revision date : 2012/03/20  
Version: 2.0

Page: 2/8  
(30473439/SDS\_CPA\_US/EN)

### Sensitization:

No sensitizing effect.

### Chronic toxicity:

**Carcinogenicity:** In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from products of a similar structure or composition.

**Reproductive toxicity:** The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from products of a similar structure or composition.

**Genotoxicity:** No mutagenic effect was found in various tests with bacteria and mammals.

### Potential environmental effects

#### Aquatic toxicity:

No toxic effects occur within the range of solubility.

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## 3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Chemical name
61790-53-2	100.0 %	Diatomaceous Earth

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## 4. First-Aid Measures

#### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm.

#### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

#### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

#### If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

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## 5. Fire-Fighting Measures

Self-ignition temperature: not self-igniting

#### Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

# Safety Data Sheet

## MOTHEREARTH D

Revision date : 2012/03/20

Version: 2.0

Page: 3/8

(30473439/SDS\_CPA\_US/EN)

### Hazards during fire-fighting:

carbon monoxide, carbon dioxide,

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

### Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

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## 6. Accidental release measures

### Personal precautions:

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is not regulated by CERCLA ('Superfund').

### Cleanup:

Dike spillage. Sweep/shovel up. Avoid raising dust. Use wet cleaning methods when applicable. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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## 7. Handling and Storage

### Handling

#### **General advice:**

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Provide means for controlling leaks and spills. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

#### **Protection against fire and explosion:**

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

### Storage

#### **General advice:**

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

#### **Storage incompatibility:**

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

# **Safety Data Sheet**

## **MOTHERREARTH D**

Revision date : 2012/03/20  
Version: 2.0

---

Page: 4/8

(30473439/SDS CPA US/EN)

#### **Storage stability:**

May be kept indefinitely if stored properly. If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

## **8. Exposure Controls and Personal Protection**

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

#### **Components with workplace control parameters**

Diatomaceous Earth OSHA TWA value 20 millions of particles per cubic foot of air ;  
TWA value 0.8 mg/m<sup>3</sup> ;  
The value is calculated from a specified equation using a  
value of 100%. Lower values of % will give higher  
exposure limits. See regulation for specific equation.

#### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

## **Personal protective equipment**

## **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

#### **Respiratory protection:**

**Respiratory protection:** Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### **General safety and hygiene measures:**

**RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS**  
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

## **9. Physical and Chemical Properties**

Form: fine powder  
Odour: earthy  
Colour: white

# Safety Data Sheet

## MOTHEREARTH D

Revision date : 2012/03/20  
Version: 2.0

Page: 5/8  
(30473439/SDS\_CPA\_US/EN)

Melting point:	760 °C 1,400 °F
Bulk density:	0.035 kg/m3
Vapour density:	not determined
Solubility in water:	not soluble

## 10. Stability and Reactivity

### Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

### Substances to avoid:

strong acids

### Hazardous reactions:

The product is chemically stable.

### Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

### Thermal decomposition:

Possible thermal decomposition products:  
carbon monoxide, carbon dioxide

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

### Corrosion to metals:

Corrosive effects to metal are not anticipated.

### Oxidizing properties:

not fire-propagating

## 11. Toxicological information

### Acute toxicity

#### Oral:

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg (OECD Guideline 401)

The product has not been tested. The statement has been derived from products of a similar structure or composition.

#### Inhalation:

Type of value: LC0

Species: rat

Value: > 0.139 mg/l (OECD Guideline 403)

Exposure time: 4 h

The product has not been tested. The statement has been derived from products of a similar structure or composition.

#### Dermal:

Type of value: LD50

Species: rabbit

Value: > 5,000 mg/kg

# Safety Data Sheet

## MOTHEREARTH D

Revision date : 2012/03/20  
Version: 2.0

Page: 6/8  
(30473439/SDS\_CPA\_US/EN)

The product has not been tested. The statement has been derived from products of a similar structure or composition.

### Irritation / corrosion

#### **Skin:**

Species: rabbit  
Result: non-irritant  
Method: OECD Guideline 404  
The product has not been tested. The statement has been derived from products of a similar structure or composition.

#### **Eye:**

Species: rabbit  
Result: non-irritant  
Method: OECD Guideline 405  
The product has not been tested. The statement has been derived from products of a similar structure or composition. Literature data.

#### **Sensitization:**

Buehler test  
Species: guinea pig  
Result: Non-sensitizing.  
The product has not been tested. The statement has been derived from products of a similar structure or composition.

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## 12. Ecological Information

### Fish

Acute:  
OECD Guideline 203 Brachydanio rerio/LC50 (96 h): > 10,000 mg/l  
The details of the toxic effect relate to the nominal concentration. Tested above maximum solubility. The product has not been tested. The statement has been derived from products of a similar structure or composition.

### Aquatic invertebrates

Acute:  
OECD Guideline 202, part 1 Daphnia magna/EC50 (24 h): > 10,000 mg/l  
The details of the toxic effect relate to the nominal concentration. Tested above maximum solubility. The product has not been tested. The statement has been derived from products of a similar structure or composition.

### Aquatic plants

Toxicity to aquatic plants:  
ISO 8692 static  
green algae/EC50 (72 h): 440 mg/l  
The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Pesticide wastes are regulated. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **Container disposal:**

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

# Safety Data Sheet

## MOTHEREARTH D

Revision date : 2012/03/20  
Version: 2.0

Page: 7/8  
(30473439/SDS\_CPA\_US/EN)

### 14. Transport Information

#### Land transport

USDOT

Not classified as a dangerous good under transport regulations

#### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

#### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical                    TSCA, US            released / listed

Crop Protection            TSCA, US            released / exempt

EPCRA 311/312 (Hazard categories):            Acute;

#### State regulations

**State RTK**  
MA, NJ, PA

**CAS Number**  
61790-53-2

**Chemical name**  
Diatomaceous Earth

### 16. Other Information

Refer to product label for EPA registration number.

Recommended use: insecticide

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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MSDS Prepared by:

# **Safety Data Sheet**

## **MOTHEREARTH D**

Revision date : 2012/03/20  
Version: 2.0

Page: 8/8

(30473439/SDS\_CPA\_US/EN)

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BASF NA Product Regulations  
msds@basf.com  
MSDS Prepared on: 2012/03/20

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