

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: January 18, 2018

Revision: January 17, 2018

### 1 Identification

- **Product identifier**
- **Trade name:** Mulch Binder
- **Product code:** MBI01G, MBI05G
- **Recommended use and restriction on use**
- **Recommended use:** Binds mulch to extend its life
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Black Diamond Coatings, Inc.  
8511 Sunstate St., Unit 102  
Tampa, FL 33634  
800-270-4050  
info@BlackDiamondCoatings.com
- **Emergency telephone number:** 800-270-4050

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified as hazardous according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** This product does not have a classification according to the GHS regulation.
- **Hazard pictograms:** Not regulated.
- **Signal word:** Not regulated.
- **Hazard statements:** Not regulated.
- **Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Components:** None in reportable quantities.

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with soap and water.  
If skin irritation is experienced, consult a doctor.
- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:**

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Gastric or intestinal disorders when ingested.

**· Indication of any immediate medical attention and special treatment needed:**

If medical advice is needed, have product container or label at hand.

### 5 Fire-fighting measures

**· Extinguishing media****· Suitable extinguishing agents:**

The product is not flammable.

Use fire fighting measures that suit the environment.

**· For safety reasons unsuitable extinguishing agents:** None.**· Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

**· Advice for firefighters****· Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Use personal protective equipment as required.

**· Environmental precautions** No special measures required.**· Methods and material for containment and cleaning up**

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.

**· Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

**· Handling****· Precautions for safe handling:** Keep out of reach of children.**· Information about protection against explosions and fires:** No special measures required.**· Conditions for safe storage, including any incompatibilities****· Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

**· Information about storage in one common storage facility:** No relevant information available.**· Specific end use(s)** No relevant information available.

### 8 Exposure controls/personal protection

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- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **General protective and hygienic measures:**  
 The usual precautionary measures for handling chemicals should be followed.  
 Keep away from foodstuffs, beverages and feed.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:** Not required under normal conditions of use.
- **Protection of hands:**



Protective gloves

- **Material of gloves** Latex, nitrile or neoprene gloves are recommended.
- **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:**  
 Not required under normal conditions of use.  
 Protection may be required for spills.
- **Limitation and supervision of exposure into the environment** No special requirements.
- **Risk management measures** No special requirements.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance:**

**Form:** Liquid

**Color:** White

- **Odor:** Mild

- **Odor threshold:** Not determined.

- **pH-value:** 4.0-6.0

- **Melting point/Melting range:** 0 °C (32 °F)

- **Boiling point/Boiling range:** 100 °C (212 °F)

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Auto-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

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· <b>Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidizing properties:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	
<b>Relative density:</b>	1.1
<b>Vapor density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Dispersible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	1500-2000 cps
<b>Kinematic:</b>	Not determined.
· <b>VOC content:</b>	<0.1 %
· <b>Other information</b>	No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Reacts with strong acids and oxidizing agents.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** No relevant information available.
- **Hazardous decomposition products**  
  
Under fire conditions only:  
Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **IARC (International Agency for Research on Cancer):**  
Present in trace quantities.

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50-00-0	formaldehyde	1
123-91-1	1,4-dioxane	2B
108-05-4	vinyl acetate	2B
75-07-0	acetaldehyde	2B
75-21-8	ethylene oxide	1

- **NTP (National Toxicology Program):**

Present in trace quantities.

50-00-0	formaldehyde	K
123-91-1	1,4-dioxane	R
75-07-0	acetaldehyde	R
75-21-8	ethylene oxide	K

- **OSHA-Ca (Occupational Safety & Health Administration):**

Present in trace quantities.

50-00-0	formaldehyde	
75-21-8	ethylene oxide	

- **Probable route(s) of exposure:**

Ingestion.  
 Inhalation.  
 Eye contact.  
 Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Generally not hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**

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- **Recommendation:**

Smaller quantities can be disposed of with household waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**

- DOT, ADR, IMDG, IATA Not regulated.

- **UN proper shipping name**

- DOT, ADR, IMDG, IATA Not regulated.

- **Transport hazard class(es)**

- DOT, ADR, IMDG, IATA
- Class Not regulated.

- **Packing group**

- DOT, ADR, IMDG, IATA Not regulated.

- **Environmental hazards**

Not applicable.

- **Special precautions for user**

Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- United States (USA)

- SARA

- **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

- **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

Present in trace quantities.

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108-05-4	vinyl acetate	15000
50-00-0	formaldehyde	15000
75-07-0	acetaldehyde	10000
75-21-8	ethylene oxide	10000

- **Proposition 65 (California)**
- **Chemicals known to cause cancer:**  
Present in trace quantities.

50-00-0	formaldehyde
123-91-1	1,4-dioxane
75-07-0	acetaldehyde
75-21-8	ethylene oxide

- **Chemicals known to cause reproductive toxicity for females:**  
Present in trace quantities.

75-21-8	ethylene oxide
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- **Chemicals known to cause reproductive toxicity for males:**  
Present in trace quantities.

75-21-8	ethylene oxide
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- **Chemicals known to cause developmental toxicity:**  
Present in trace quantities.

75-21-8	ethylene oxide
67-56-1	methanol

- **EPA (Environmental Protection Agency):**  
None of the ingredients are listed.

- **IARC (International Agency for Research on Cancer):**  
Present in trace quantities.

108-05-4	vinyl acetate	2B
50-00-0	formaldehyde	1
123-91-1	1,4-dioxane	2B
75-07-0	acetaldehyde	2B
75-21-8	ethylene oxide	1

- **NIOSH-Ca (National Institute for Occupational Safety and Health):**  
Present in trace quantities.

50-00-0	formaldehyde
123-91-1	1,4-dioxane
75-07-0	acetaldehyde
75-21-8	ethylene oxide

- **Canadian Domestic Substances List (DSL):**  
All ingredients are listed.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any  
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specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** January 18, 2018 / -· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety &amp; Health Administration

· **Sources**Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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