

## Safety Data Sheet Black Oxide Pigment

March 17<sup>th</sup>, 2016

### Section 1: Chemical Product and Company Identification

**Product name:** Black Oxide Pigment  
**Contact Info:** Bramble Berry Inc.  
2138 Humboldt Street  
Bellingham, WA 98225  
info@brambleberry.com  
www.brambleberry.com  
1-877-627-7883

**Emergency Phone Number:**  
Within USA & Canada: 1.800.424.9300 CCN693143  
Outside USA & Canada: +1.703.527.3887 (collect calls accepted)

### Section 2: Hazards Identification

This mixture has not been tested as a whole. It contains ingredients which could be released from the mixture in concentrations which would exceed an established OSHA permissible exposure limit or ACGIH Threshold Limit Value, or could present a health risk to employees.

#### Classification of the chemical

**Self-heat. 2:** Self-heating in large quantities; may catch fire.

**Skin Irrit. 2:** Causes skin irritation.

**Eye Irrit. 2A:** Causes serious eye irritation.

**Eye Irrit. 2A:** Causes serious eye irritation.

**Comb. Dust:** May form combustible dust concentrations in air.

#### Label elements

##### Symbols:



#### Warning

##### Code Description

**H252** Self-heating in large quantities; may catch fire.

**H315** Causes skin irritation.

**H319** Causes serious eye irritation.

**H335** May cause respiratory irritation.

**USH003** May form combustible dust concentrations in air.

**Code Description**

**P235+P410** Keep cool. Protect from sunlight.

**P261** Avoid breathing dust/fume/gas/mist/vapors/spray.

**P264** Wash ... Thoroughly after handling.

**P271** Use only outdoors or in a well-ventilated area.

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**P302+P352** IF ON SKIN: Wash with plenty of water/...

**P302+P352** IF ON SKIN: Wash with plenty of water/...

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**P312** Call a POISON CENTER/doctor/... if you feel unwell.

**P321** Specific treatment (see ... On this label).

**P332+P313** If skin irritation occurs: Get medical advice/attention.

**P337+P313** If eye irritation persists: Get medical advice/attention.

**P362+P364** Take off contaminated clothing and wash it before reuse.

**P403+P233** Store in a well-ventilated place. Keep container tightly closed.

**P405** Store locked up.

**P407** Maintain air gap between stacks/pallets.

**P413** Store bulk masses greater than ... kg/... lbs at temperatures not exceeding ... °C/...°F.

**P420** Store away from other materials.

**P501** Dispose of contents/container to ...

**P501.A** Dispose of contents/container in accordance with applicable regulations.

**Ingredient(s) with unknown acute toxicity:** None

**Hazards not otherwise classified identified during the classification process:** None

### Section 3: Composition/Information on Ingredients

**Substances**

Not Available

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components:**

Qty	Name	Ident. Numb.	Classification	Registration Number
90-100 %	BLACK OXIDE	CAS:1317-61-9 EC:215-277-5	Comb. Dust, USH003; Self-heat. 2, H252; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	

## Section 4: First Aid Measures

### Description of first aid measures

#### In case of skin contact:

Immediately take off all contaminated clothing and shoes.  
Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with soap and plenty of water.

#### In case of eye contact:

Wash immediately and thoroughly with running water, keeping eyelids regularly raised, for at least 15 minutes. Cold water may be used. Check for and remove any contact lenses at once. OBTAIN A MEDICAL EXAMINATION. Protect the eyes with a sterile gauze or a clean, dry handkerchief.

#### In case of ingestion:

Do not induce vomiting, get medical attention showing the MSDS and label hazardous.

#### In case of inhalation:

In case of inhalation, consult a doctor immediately and show him the safety data sheet, packing or label.

### Most important symptoms/effects, acute and delayed

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## Section 5: Fire-Fighting Measures

### Extinguishing media

#### Suitable extinguishing media:

Water, CO<sub>2</sub>, foam, chemical powders, according to the materials involved in the fire.  
In case of fire, use foam, dry chemical, CO<sub>2</sub>.  
CO<sub>2</sub> or dry chemical fire extinguishers.

#### Unsuitable extinguishing media:

None in particular.

### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.  
Burning produces heavy smoke.

**Hazardous combustion products:** Not Available

**Explosive properties:** Not Available

**Oxidising properties:** Not Available

### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## **Section 6: Accidental Release Measures**

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

Wear personal protection equipment.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Provide adequate ventilation.  
Use appropriate respiratory protection.  
See protective measures under point 7 and 8.

### **Methods and material for containment and cleaning up**

Suitable material for taking up: dry and inert absorbing material (e.g. vermiculite, sand, earth).  
Wash with plenty of water.

## **Section 7: Handling and Storage**

### **Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Do not use on extensive surface areas in premises where there are occupants.  
Use localized ventilation system.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

### **Conditions for safe storage, including any incompatibilities**

**Storage temperature:** Not Available  
Always keep in a well ventilated place.

### **Incompatible materials:**

None in particular.

### **Instructions as regards storage premises:**

Cool and adequately ventilated.

## **Section 8: Exposure Controls/Personal Protection**

### **Control parameters**

**Appropriate engineering controls:** Not Available

### **Individual protection measures**

#### **Eye/face protection:**

Use close fitting safety goggles, don't use eye lens.

#### **Skin protection:**

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

**Hand protection:**

Use protective gloves that provide comprehensive protection, e.g. P.V.C., neoprene or rubber.

**Respiratory protection:**

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

## Section 9: Physical and Chemical Properties

**Information on basic physical and chemical properties**

**Physical State:** Solid

**Appearance:** Powder, Black

**Odour:** Characteristic

**Odour threshold:** Not Available

**pH:** Not Available

**Melting point/ range:** Not Available

**Boiling point/ range:** Not Available

**Flash point:** Not Available

**Evaporation rate:** Not Available

**Upper/lower flammability or explosive limits:** Not Available

**Vapour density:** Not Available

**Vapour pressure:** Not Available

**Density:** Not Available

**Water solubility:** Insoluble

**Lipid solubility:** Not Available

**Partition coefficient (n-octanol/water):** Not Available

**Auto-ignition temperature:** Not Available

**Decomposition temperature:** Not Available

**Viscosity:** Not Available

**Explosive properties:** Not Available

**Oxidising properties:** Not Available

**Flammability (Solid, Gas):** Not Available

**Other information**

**Substance group relevant properties:** Not Available

**Miscibility:** Not Available

**Fat Solubility:** Not Available

**Conductivity:** Not Available

## Section 10: Stability and Reactivity

**Reactivity**

Stable under normal conditions.

**Chemical stability**

Data not Available.

**Possibility of hazardous reactions**

Burning produces carbon monoxide and/or carbon dioxide.

**Conditions to avoid**

Stable under normal conditions of temperature and pressure.

**Incompatible materials**

Avoid contact with combustible materials. The product could catch fire.

**Hazardous decomposition products**

Burning produces carbon monoxide and/or carbon dioxide.

## Section 11: Toxicological Information

**Information on toxicological effects**

**Toxicological Information of the Substance**

PURIFIED BLACK OXIDE	a) acute toxicity	LD50 > 5000.00000mg/kg	Rat
BC			

**Toxicological information on main components of the mixture:**

<b>BLACK OXIDE</b>	b) skin corrosion/irritation	Skin Irritant Yes	slightly
	c) serious eye damage/irritation	Eye Irritant Yes	slightly
	a) acute toxicity	LD50 Oral Rat > 10000mg/kg	

**TOXICITY\_APPENDIX\_DESCR\_GEN**

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

None

**Substance(s) listed as OSHA Carcinogen(s):**

None

**Substance(s) listed as NIOSH Carcinogen(s):**

None

**Substance(s) listed on the NTP report on Carcinogens:**

None

## Section 12: Ecological Information

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

**Persistence and degradability:** Not Available

**Bioaccumulative potential:** Not Available

**Mobility in soil:** Not Available

**Other adverse effects:** Not Available

## Section 13: Disposal Conditions

### Waste treatment methods

Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules). Do not dump into sewers, any body of water or onto the ground. Recover, if possible. Send to authorized disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

## Section 14: Transport Information

Notes: This product is NOT classified or regulated when the individual package size is less than 450 liters in volume (about 200 kg).

No Transport warning sign required.

OTHERWISE, this product is classified or regulated as follows:

### UN number

ADR-UN number: 3190

DOT-UN Number: UN3190

IATA-Un number: 3190

IMDG-Un number: 3190

### UN proper shipping name

ADR-Shipping Name: N/A

DOT Proper Shipping Name: Self-heating substance, solid, N.O.S

IATA-Technical name: Self-heating substance, solid, N.O.S

IMDG-Technical name: Self-heating substance, solid, N.O.S

### Transport hazard class(es)

ADR-Class: 4.2

DOT Hazard Class: 4.2

IATA-Class: 4.2

IMDG-Class: 4.2

### Packing group

ADR-Packing Group: III

Exempted for ADR: III

IATA-Packing group: III

IMDG-Packing group: III

### Environmental hazards

Marine pollutant: No

Environmental Pollutant: Not Available

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

Not Available



**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT Label(s): 4.2

DOT Symbol: N/A

DOT Cargo Aircraft: N/A

DOT Passenger Aircraft: N/A

DOT/TDG Bulk: N/A

DOT Non-Bulk: N/A

**Road and Rail (ADR-RID):**

ADR-Label: 4.2

ADR-Upper number: N/A

ADR Tunnel Restriction Code: N/A

**Air (IATA):**

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: 4.2

IATA-Sub Risk: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

**Sea (IMDG):**

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Sub Risk: N/A

IMDG-Special Provisioning: N/A

IMDG-Page: N/A

IMDG-Label: 4.2

IMDG-EMS: N/A

IMDG-MFAG: N/A

## Section 15: Regulatory Information

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

**SARA - Superfund Amendments and Reauthorization Act**

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**CAA - Clean Air Act**

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

BLACK OXIDE is listed in TSCA Section 8b

**Section 302 - Extremely Hazardous Substances:**



no substances listed

**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

no substances listed

**Substance(s) listed under CERCLA:**

no substances listed

**USA - State specific regulations**

**CWA - Clean Water Act**

**CAA - Clean Air Act**

**CAA listed substances:**

no substances listed

**CWA listed substances:**

no substances listed

**Substance(s) listed under California Proposition 65:**

no substances listed

**Substance(s) listed under Massachusetts Right to know:**

no substances listed

**Substance(s) listed under Pennsylvania Right to know:**

no substances listed

**Substance(s) listed under New Jersey Right to know:**

no substances listed

## Section 16: Other Information

**Code Description**

**H252** Self-heating in large quantities; may catch fire.

**H315** Causes skin irritation.

**H319** Causes serious eye irritation.

**H335** May cause respiratory irritation.

**USH003** May form combustible dust concentrations in air.

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