

## Safety Data Sheet

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Product Name: Black Iron Oxide  
Product Type: Colorant  
Ingredients: Pigment Black 11 - INCI (CI77499) CAS (1317-61-9)

### ***Physical and Chemical Properties***

Appearance: Powder  
Color: Black  
Odor: Odorless  
pH Value (Value) (10% Aq. Suspension): 3.5-7  
Melting/Freezing Point (°C): Decomposes  
Initial Boiling Point: Not applicable  
Flash Point: Not applicable  
Evaporation rate: Not applicable  
Flammability (solid or gas): Non-flammable  
Vapor Pressure (Pascal): Not applicable  
Vapor Density (Air=1): Not applicable  
Partition Coefficient (n-octanol/water): Not applicable  
Auto Ignition Temperature (°C): Not available  
Decomposition Temperature (°C): Not available  
Viscosity (mPa.s): Not applicable  
Explosive Properties: Not Explosive  
Oxidizing Properties: Not applicable

### ***Hazards Identification***

*Classification of the substance or mixture*

*HM IS Ratings*

(Ratings Key: 0=Lowest Hazard, 4=Highest Hazard)

<i>Parameter</i>	<i>Rating</i>
Health	0
Fire Hazard	0
Reactivity	0
Personal Protection	E

Per Regulation (EC) No. 1272/2008 (CLP): Not classified  
Per Directive 67/548/EEC & Directive 1999/45/EC: Not classified  
Per TSCA, US: Non-hazardous  
Additional information: not available

*Label elements*

GHS label elements: not applicable  
Hazard pictogram(s): not applicable  
Signal word(s): not applicable  
Hazard statement(s): not applicable  
Precautionary statement(s): not applicable  
Other hazards: not known

### ***First Aid Measures***

Inhalation: Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention  
Ingestion: If ingested, wash out mouth with water, drink milk or egg white.  
Skin Contact: Wash with soap and water. Get medical attention if irritation persists.

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Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

### ***Fire-Fighting measures***

Suitable extinguishing media: extinguish with water spray, foam or dry chemical

Unsuitable extinguishing media: carbon dioxide

Thermal hazards: noncombustible. None anticipated

Advice for firefighters: fire fighters should wear complete protective clothing including self- contained breathing apparatus

### ***Spillage/Accidental Release Measures***

Personal precautions: do not breathe dust

Personal protection equipment: wear appropriate personal protective equipment, avoid direct contact

In case of emergency: a self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions

Environmental precautions: do not allow to enter drains, sewers or watercourses

Methods and material for containment and cleaning up: collect mechanically and dispose. Use vacuum equipment for collecting spilt materials, where practicable.

### ***Handling and Storage***

Material may be slippery when wet. Store in cool dry place avoid breathing dust. Wash thoroughly after handling. Avoid contact with eyes. Use only with adequate ventilation.

### ***Exposure Controls/Personal Protection***

Control Parameters: Provide adequate ventilation when using the material and follow the principles of good occupation hygiene to control personal exposures.

#### *Exposure Limit Values*

Substance	PEL (OSHA) mg/m <sup>3</sup> for 8 hrs.	TLV (ACGIH) mg/m <sup>3</sup> for 8 hrs.
Pigment Black 11	10	5

Eye/face protective equipment: Safety glasses with side shields and dust mask covering nose and mouth.

Hand protection: Choosing the right material of gloves to be worn when handling the dust or preparation

Respiratory protection: Use a NIOSH/MSHA approved respirator as necessary to protect from dust

Skin protection: Use apron, boots or full protective suit

Ventilation: General ventilation, Local exhaust ventilation is recommended control exposures to within applicable limits.

### ***Stability and Reactivity***

Reactivity: No information available

Chemical stability: stable under normal conditions

Possibility of hazardous reactions: none

Conditions to avoid: No information available

Incompatible materials: No information available

Decomposition products: No information available

### ***Toxicological Information***

Acute toxicity LDS<sub>0</sub>(Oral, (rat)) > 5000 mg/kg. (Non Toxic according to NIOSH Registry of Toxic Effects of Chemical Substances (RTECS))

Skin corrosion/irritation May cause irritation

Serious eye damage/irritation May cause irritation

Respiratory or skin sensitization May cause irritation

Germ cell Mutagenicity No data

Carcinogenicity Limited evidence of carcinogenicity in man. Not classifiable as

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Reproductive toxicity to its carcinogenicity to humans.  
No data  
STOT-single exposure No data  
STOT-repeated exposure No data

### **Ecological Information**

Toxicity: no data  
Persistence and degradability: insoluble in water. This product is predicted not to degrade in soil and water  
Bio-accumulative potential: no data  
Mobility in soil: not applicable  
Results of PBT and vPvB assessment: not applicable  
Other adverse effects: not known  
Water Pollution: NWG (non-water endangering)

### **Disposal Conditions**

Dispose of contents in accordance with local, state or national legislation.

### **Transport Information**

Not classified as dangerous for transport

International Transport Regulations	ADR/RID	ADN	IMDG	ICAO/IATA
UN Number	N/A	N/A	N/A	N/A
Proper Shipping Name	N/A	N/A	N/A	N/A
Transport Hazard class(es)	N/A	N/A	N/A	N/A
Packing Group	N/A	N/A	N/A	N/A
Environmental Hazards	None	None	None	None
Special Precautions for User	None	None	None	None
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/A	N/A	N/A	N/A
Hazard Label(s)	N/A			
Additional Information	Custom Tariff No. 32 06 4790			

### **Regulatory Information**

According to Directive 67/548/EEC & Directive 1999/45/EC: not classified as dangerous for supply/use  
Safety, health and environmental regulations/legislations specific for the substance or mixture: not available  
Chemical Safety Assessment: not available  
Federal Regulation Registration Status: Chemical TSCA, US Released/Listed  
OSHA hazard Category: 2B carcinogen

### **-Disclaimer-**

This safety data sheet is based on the properties of the material known to Mad Oils, Inc. at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment, Mad Oils, Inc. holds no responsibility. This document is not intended for quality assurance purposes.