

---

## MATERIAL SAFETY DATA SHEET

---

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

PRODUCT CODE: **IROXBLA-89004**

COLOUR INDEX NAME: Pigment Black 11 CHEMICAL FAMILY: IRON OXIDE

COLOUR INDEX NUMBER: 77499 FDA DESCRIPTION NAME: IRON OXIDE

PRODUCT NAME: Black Iron Oxide **USE DESCRIPTION**

Purified colors are colorants manufactured for use in a variety of cosmetic applications. These products are produced to the highest purity standards possible.

Distributor:

Pierre-Marie Montréal

[www.pierre-marie.ca](http://www.pierre-marie.ca)

MANUFACTURED

Jiangsu, China

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

BLACK IRON OXIDE

C.A.S.# 1317-61-9

This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200).

### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING!

Avoid temperatures above 80°C

Under DOT HM-181 shipping guidelines, this product is considered to be a Class 4.2 material, as defined by a United Nation's test method for self-heating substances. Class 4.2 covers "substances liable to spontaneous combustion".

### 4. FIRST AID MEASURES EYE CONTACT

Flush eyes thoroughly with large amounts of water for at least fifteen minutes. Get medical attention.

SKIN CONTACT

Wash skin with soap and water. Remove severely contaminated clothing and clean before reuse.

Seek medical attention in the unlikely event that irritation occurs. INHALATION

Remove to fresh air. Get medical attention if breathing is difficult.

---

## MATERIAL SAFETY DATA SHEET

---

### INGESTION

Do not give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention.

### 5. FIRE FIGHTING MEASURES

Non flammable inorganic pigment product.

#### Extinguishing Media

Carbon dioxide, dry chemical or foam recommended. Apply water spray to cool exposed closed containers.

#### Special Fire-Fighting Procedures

Self-contained breathing apparatus (SCBA) and full protective equipment recommended.

Unusual Fire and Explosion Hazards This product will not burn.

#### General Hazard

This inorganic pigment will not burn, and has a low level of fire hazard.

### FLAMMABILITY DATA

Flash Point: Non-flammable material

Flammability Limits: Not applicable

Autoignition Temperature: No data

Dust Cloud Ignition Temperature: No data

Dust Layer Ignition Temperature: No data

NFPA	RATINGS	HMIS	RATINGS
Health:	1	Health:	1
Flammability:	1	Flammability:	1
Reactivity:	0	Reactivity:	0

### 6. ACCIDENTAL RELEASE MEASURES

#### Small Spill

For dry powder spills, inert materials such as sand may be added to control dusting prior to cleanup. Industrial grade vacuum sweepers are also recommended. Place spilled material into appropriate waste containers for disposal. Large Spill

Contain spilled material immediately with an inert substance such as sand or earth. Use plastic or aluminum shovel to transfer diluted waste material into appropriate containers for disposal.

### 7. HANDLING AND STORAGE Handling

---

## MATERIAL SAFETY DATA SHEET

---

Avoid employee exposure through the use of appropriate engineering controls and good industrial hygiene practices. Do not handle at temperatures above 80°C. Do not store with incompatible materials. (See Section 5)

### Storage

Store in a moderately cool, dry, well-ventilated area away from direct sources of heat. Empty containers may contain product residues and should be handled appropriately. Position containers so that any labelling information is visible. Do not store at temperatures above 80°C. Do not store with incompatible materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls

The use of local exhaust ventilation is recommended.

### Personal Protection

NIOSH approved dust respirators are recommended when handling in areas of pigment dusting. Safety glasses are also recommended. Impervious clothing should be worn when gross contact is likely, such as when cleaning up spills of large amounts. Exposure Limits

There are no ACGIH TLV's or OSHA PEL's established for this product.

The OSHA PEL for nuisance dust is 15 mg/m<sup>3</sup> (total dust), and 5 mg/m<sup>3</sup> (respirable dust) recommended. The recommended ACGIH TLV for nuisance dust is 10 mg/m<sup>3</sup>.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Finely divided powder COLOR:

Black

MELTING POINT: No data

DENSITY: 5.0g/mL

SOLUBILITY: Insoluble

PERCENT VOLATILE: None

VAPOR PRESSURE: Not applicable

MOLECULAR FORMULA: Fe<sub>3</sub>O<sub>4</sub>

VOLATILE ORGANIC COMPOUNDS (VOC's): None

## 10. STABILITY AND REACTIVITY

### GENERAL:

This product is a stable compound up to 80°C, and hazardous polymerization will not occur. Exposure to temperatures above 80°C may cause this product to become unstable and to

---

## MATERIAL SAFETY DATA SHEET

---

autooxidize, generating sufficient heat to cause combustion such as the product container to ignite. (See Section 5)

### INCOMPATIBILITY:

Avoid strong oxidizing agents such as peroxides, chlorates, perchlorates, nitrates, and permanganates. Oxidizing materials may vigorously evolve oxygen in large amounts. HAZARDOUS

### DECOMPOSITION PRODUCTS:

When involved in a fire, burning organic pigments may evolve noxious gases which are toxic. These compounds may include carbon monoxide, carbon dioxide, nitrous oxides, or hydrogen chloride, depending on the pigment type.

## 11. TOXICOLOGICAL INFORMATION GENERAL

Based upon industry-wide experience over many years of manufacturing and published toxicological studies, many inorganic pigments in general are considered to be practically nontoxic. This low order of toxicity is probably due to the fact that inorganic pigments are somewhat inert and insoluble substances.

### ACUTE (SHORT-TERM) TOXICITY

No known published data available.

### CHRONIC (LONG-TERM) TOXICITY

No known published data available.

### MUTAGENICITY

No known published data available.

## 12. ECOLOGICAL INFORMATION

This product has not been evaluated for its ecotoxicity. However, the biodegradation of inorganic colorants under aerobic conditions is expected to be poor and there is no evidence to suggest they create any significant ecological problems when released into the environment. Since inorganic pigments are mostly insoluble compounds, they are believed to have minimal bioaccumulation and bioavailability characteristics.

## 13. DISPOSAL CONSIDERATIONS General

This product must be disposed of in accordance with all applicable federal, state and local regulations.

### Waste Management

- . Incineration or landfilling are recommended disposal techniques. Contact the state or local environmental agency for specific rules.
- . This product is not identified as a RCRA hazardous waste under 40 CFR 261, and is not regulated under CERCLA (Superfund).

## 14. TRANSPORT INFORMATION

---

**MATERIAL SAFETY DATA SHEET**

---

D.O.T. PROPER SHIPPING NAME (49 CFR PART 172)

SELF-HEATING SOLID, INORGANIC, N.O.S. (CONTAINS: BLACK IRON OXIDE)

D.O.T. HAZARD CLASS (49 CFR 172.101-102).....: 4.2

D.O.T. LABEL.....: SPONTANEOUSLY COMBUSTIBLE D.O.T.

PLACARD.....: SPONTANEOUSLY COMBUSTIBLE

BILL OF LADING DESCRIPTION

SELF-HEATING SOLID, INORGANIC, N.O.S. (CONTAINS:BLACK IRON OXIDE), 4.2,UN 3190,PGII

CERCLA SUBSTANCE (49 CFR).....: Not regulated REPORTABLE

QUANTITY (RQ).....: None

INTERNATIONAL

UN/NA NUMBER.....: UN3190

IMDG/IACO CLASSIFICATION.....: SELF-HEATING SOLID, INORGANIC, N.O.S.

IATA CLASSIFICATION.....: SELF-HEATING SOLID, INORGANIC, N.O.S.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard Status

This product is not considered to be a hazardous substance under OSHA's Federal Hazard Communication Standard 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) Status

All of the ingredients of this material have been reported to the U.S. EPA and are included in the TSCA chemical inventory. SARA Title III

Section 302 (EHS).....: NONE

Section 311/312 (Acute).....: NONE

RCRA

Not regulated as a hazardous waste under RCRA.

EINECS No.: 2152775

16. OTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Pierre-Marie Montréal. assumes no responsibility for personal injury or property damage caused by the material. Users assume all risks associated with the use of the material. We have described our product concerning possible safety requirements by the above mentioned information given to the best of our knowledge and experience. All data given are never meant to guarantee any quality description nor product properties

---

**MATERIAL SAFETY DATA SHEET**

---

**DISCLAIMER**

Pierre-Marie Montréal expressly disclaims all warranties of merchantability and fitness for a particular purpose, and is not liable for any direct or indirect damages.

All information on this sheet is based on data provided by the manufacturer or recognized sources. Although the information is believed to be accurate, We provide this information in good faith and we believe it is accurate as of the date hereof. Pierre-Marie Montreal makes no representation as to their correctness or suitability. The conditions of use are not the responsibility of the manufacturer and are beyond the control of Pierre-Marie Montréal.

Users are responsible for verifying the data in accordance with their operating and regulatory conditions of their location or territory as well as their federal, provincial or local laws to determine if the product is suitable for their applications. Users assume all risks in the use, handling and disposal of the product, in the publication, in the use of the information contained in this form and in the trust placed in them. The information relates only to the product indicated on this sheet and does not relate to its use with other materials or processes.

Last revised 2019-05-15