### **Material Safety Data Sheet**

Product/Material Orange Oxide
Distributed by: Saffire Blue Inc.

1444 Bell Mill Road, Tillsonburg, ON N4G4G9 Canada

### **Section I – Product Information**

Trade Name Orange Oxide
Chemical Name Iron oxide

Chemical Formula Fe2O3 and Fe3O4 and Fe2O3\*H20

CAS Number 1332-37-2 EINECS Number 2151682 HMIS Rating Health

Health 0 Flammibility 0 Reactivity 0

# **Section II – Composition**

	CAS Number	<b>Exposure Limits</b>
Iron Oxide Red	1309-37-1;	
	1332-37-2	5 mg/m3 10 ppm
Iron Oxide Black	1317-61-9	5 mg/m3 10 ppm
Iron Oxide Yellow	51274-00-1	5 mg/m3 10 ppm

# **Section III – Fire and Explosion Hazard Data**

Flammable Properties Non Flammable

Hazardous Combustion Products None

Extinguishing Media Use agent applicable to surrounding fire

Fire Fighters should wear NIOSH approved, positive pressure self-contained breathing apparatus and full

protective clothing when appropriate.

Emergency Overview: No unusual fire or spill hazard. Low health risk by

inhalation.

Potential Health Effects Eyes – may cause mechanical irritation

Skin - none

Inhalation - low health risk, treat as nuisance dust

Oral ld50 greater than 10 g/kg (RAT)

Effects of Overexposure Acute – causes mechanical skin and eye irritation

Chronic - prolonged inhalation of iron oxide dust is known

to produce a condition konw as siderosis. On x-rays it appears to be a benign pneumoconiosis and is not associated with pumonary fibrosis or disability uniless there is concurrent exposure to other fibrosis producing materials such as silica. The TLV is set to protect against siderosis.

Carcinogency: suspected carcinogen.

Not listed with NTP, IARC, or OSHA as a known or

#### **Section IV - First Aid Measures**

Emergency First Aid Procedure

Eyes Immediately flush eyes with plenty of water. Call a

physician

Skin Immediately wash skin with soap and water. Wash

contaminated clothing before reuse.

Ingestion If swallowed, dilute with large amounts of water to induce

vomiting. Consult a physician

Inhalation Immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Please note: Symptoms may be delayed; prompt medical attention may be required. Call a physician.

### Section V – Precautions for Safe Handling and Use

Steps to be taken in case the material is released or spilled: Soak up with sawdust, sand, oil dry or other absorbent material.

Waste disposal method: As in accordance with EPA and local regulations.

### **Section VI – Special Precautions**

Precautions to be taken in handling and storage: store in a well-ventilated place at temperatures below 120 F. Keep container tightly closed. Keep from freezing.

Good industrial hygiene practice requires that employee exposure be maintained below TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

## Section VII - Control Measures and Toxicity

Ventilation Local Exhaust Eye Protection Safety Glasses Protective gloves Rubber or plastic Protective clothing Rubber apron

Other Equipment NIOSH approved respirator as needed, eyewash equipent

Other Precautions Wash hands after use

There are no known dangerous acute or chronic effects associated with the use of this material. The acute oral toxicity LD50 Oral (Rat) for Fe2O3 is greater than 10 g/kg (Rat).

This product is not considered to be a known or suspected carcinogen by NTP, IARC or OSHA

# **Section VIII - Physical and Chemical Properties**

Appearance: Brown powder

Boiling Point n/a
Vapor Pressure n/a
Vapor Density n/a
Solubility in water insoluble
Specific gravity 4.8 - 5.2

pH not determined

Odor none
Odor Threshold n/a

Iron Oxides are not compatible with hydrazine, calcium hypochlorite, performic acide and bromine pentafluoride.

### **Section IX - Disposal and Transportation**

Collect in containers, bags or covered dumpster boxes. If reuse or recycling is not possible, material may be disposed of at a chemically secure landfill.

RCRA Hazardous Waste Number: Not regulated.

US DOT: Not regulated.
Canadian TDG Not regulated
Harmonized tariff code 2821.10.00

California Prop 65: There are extremely small, but detectable amounts of substances regulated under California's safe drinking water and toxic enforcement act:

Arsenic Less than 2 ppm
Beryllium Less than 2 ppm
Cadmium Less than 2 ppm
Chromium VI Less than 0.1 ppm
Lead Less than 10 ppm

These levels are "typical" quantities and may change slightly with different lots. The term "Less Than" indicates that he substance was detected but the amount was less than

the quantifiable limit.

# **Section X – Comments**

The statements contained herein are offered for informational purposes only and are based on technical data that there believed to be accurate. It is intended for use only by persons having the necessary technical skill, and at their own discretion and risk. Since conditions and manner of use are outside of our control, we make no warranty, expressed or implied of merchantability, fitness or otherwise.