



00523-2112

MATERIAL SAFETY DATA SHEET FOR NATURAL IRON OXIDE BLACK SB 890**SECTION 1****IDENTIFICATION OF THE MATERIAL AND SUPPLIER****Product (material) name : Iron Oxide BLACK SB 890****Other names : Iron Oxide****Supplier name/address/telephone no./Emergency phone number:**

Société des Ogres de France
200 chemin des ocriers - 84400 APT (France)
Tel : 04 90 74 63 82 (office) / 01 40 05 48 48 (centre anti-poison)
mail: infos@ogres-de-france.com

SECTION 2**HAZARDS IDENTIFICATION****Hazard classification, including a statement of overall hazardous or dangerous nature:**

- **Hazardous Substance and Dangerous Goods**

Risk phrase(s) :**Harmful if inhaled, affects respiratory System. May Cause irritation to eyes and respiratory Tract.****Safety phrase(s):****Store in a cool , dry ,ventilated area. Protect against Physical Damage**

- **Inhalation:** May Cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.
- **Ingestion:** Extremely large oral dosages may produce gastro-intestinal disturbances
- **Skin contact:** No adverse effects expected
- **Eye Contact:** May Cause mechanical irritation
- **Chronic exposure :** Long term inhalation to iron oxide has resulted in mottling of lungs, a condition referred to as siderosis. This is considered a benign pneumoconiosis and does not ordinarily cause significant physiological impairment. Long term eye contact may stain eyes and leave a "rust ring".

Aggravation of Pre existing conditions: Persons with impaired respiratory function may be more susceptible to the effects of the substance.

- **Health rating: 1 –Slight**
- **Flammability Rating : 0 –none**
- **Reactivity Rating : 1 (Slight)**
- **Contact Rating : 1- Slight**
- **Lab protective Equipment: Goggles, Lab Coat**
- **Storage Colour Code : Black (General Storage)**



SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS SUBSTANCE

Chemical identity of the pure substance	: Fe₃O₄
Common name(s), synonym(s)	: Iron Oxide BLACK,
CAS Number(s)	: 1309-38-2

MIXTURE

Chemical identity of ingredients	Fe₂O₃	SiO₂	CaO	MgO	Al₂O₃	FeO
Proportion of ingredients	70-80%	6-8%	1-3%	0.1%	0.2-1%	0.3%
CAS Number(s) for ingredients						
Fe₂O₃ – 1309-38-2						
SiO₂ - 763-86-9						
CaO - 1305-78-8						
MgO - 1309-48-4						
Al₂O₃ – 1344-28-1						

SECTION 4 FIRST AID MEASURES

- **Inhalation:** Move to Fresh Air Area. Get Medical attention for any breathing difficulty
- **Ingestion:** If large amount were swallowed, give water to drink and get medical advice
- **Skin Contact:** Wash exposed area with soap water. Get medical advice if irritation develops.
- **Eye Contact:** Immediately flush eyes with plenty water for atleast 15mins. Get Medical attention if irritation Persists.

SECTION 5 FIRE FIGHTING MEASURES

- **Fire :** Not expected to be a fire hazard
- **Explosion :** No information Found
- **Fire Extinguishing Media :** Use any means suitable for extinguishing surrounding fire.
- **Special Information:** In the event of fire, wear full protective clothing and NIOSH approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- **Emergency procedures :** Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 8
- **Methods and materials for containment and clean up:** Pick up and place in a suitable container for reclamation or disposal using a method that does not generate dust.



SECTION 7 HANDLING AND STORAGE

- **Precautions for safe handling :** Keep in a tightly closed container. Store in a cool ,dry and ventilated area. Protect against physical damage.
- **Conditions for safe storage, including any incompatibilities :** Containers of this material may be hazardous when empty since they retain product residues (dust,solids).Observe all the warnings and precaution listed for the product

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Airborne Exposure Limits** , OSHA Permissible Exposure Limit (PEL) - Iron Oxide fume : 10mg/m3
- **ACGIH Threshold Limit Value (TLV)** - Iron Oxide(Fe_2O_3) : 5mg/m3(TWA) respirable fraction
- **A4** – Not classifiable as a human carcinogen

Ventilation System :

A system of local and or general exhaust is recommended to keep employee exposures below the air borne exposure limits. Local Exhaust Ventilation is generally preferred because it can control the emissions of the contaminants at source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of recommended Practices, Most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type 95 or better filters) may be worn for up to 10 times the exposure limits or the maximum use concentration specified by appropriate regulatory agency or respirator supplier whichever is lowest.

A full facepiece particulate respirator (NIOSH type N100 filters) may be worn up to 50times the exposure limit, or the maximum use concentration specified by appropriate regulatory agency or respirator supplier whichever is lowest.

If oil particles (e.g. lubricants, cutting fluids, glycerine etc) are present, use NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use full face piece positive pressure, air supplied respirator.

Warning: Air Purifying Respirators do not protect workers in oxygen deficient atmosphere.

- **Skin Protection :** Wear gloves and clean body covering clothing.
- **Eye Protection:** Use Chemical Safety Goggles. Maintain eye wash fountain and quick drench facilities in work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance (colour, physical form, shape).** : Blackish Powder
- **Odour.** : Odour less
- **pH.** : 7



- Vapour pressure. No information Found
- Vapour density.: No Information Found
- Boiling point/range. : Not Applicable
- Melting point : 1250 deg cent.
- Solubility (specify solvent, e.g. water).: <0.1% in water
- Specific gravity : 3
- Information for flammable materials, including:
- Flash point and method of detecting flash point; : No information Found
- Upper and lower flammable (explosive) limits in air : No information found
- Ignition temperature. : No information found
- Additional information
- Specific heat value. : No information found
- Particle size. : 44microns
- Volatile organic compounds (VOC) content. : Nil at room temperature
- Evaporation rate.: No information Found
- Viscosity. : Not Applicable
- Percent volatile. : 1% Max. at 105 deg. Centigrade
- Octanol/water partition coefficient. : No information Found
- Saturated vapour concentration (include reference temperatures). : Not Applicable
- Additional characteristics not noted above may also be provided if applicable to the material. : Nil
- Flame propagation or burning rate of solid materials. : Nil
- Properties of both flammable and non-flammable materials that may initiate or uniquely contribute to the intensity of a fire (e.g. Class 4 or Class 5).: Nil information available
- Potential for dust explosion. : Nil
- Reactions that release flammable gases or vapours. : Nil
- Fast or intensely burning characteristics. : NIL
- Non-flammables that could contribute unusual hazards to a fire, such as strong oxidizing and reducing agents or peroxide formers. Not Applicable
- Release of invisible flammable vapours and gases. : NIL
- Decomposition temperature. : No decomposition at room temperature

SECTION 10

STABILITY AND REACTIVITY

- Chemical stability : Stable under ordinary conditions of use and storage
- Conditions to avoid : Incompatibles
- Incompatible materials : Carbon Monoxide,Hydrazine,Calcium hypochloride, performic acid, bromine penta fluoride
- Hazardous decomposition products : No information available
- Hazardous reactions : Polymerisations will not occur



SECTION 11 TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure : No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as Tumorogen.

- Ingredient : Iron Oxide Fe₂O₃ (1309-37-1)
- **NTP carcinogen:**
- Known : No
- Anticipated : No
- IARC Category : 3

SECTION 12 ECOLOGICAL INFORMATION

- Ecotoxicity : No information found
- Environmental fate (exposure) : No Information Found

SECTION 13 DISPOSAL CONSIDERATIONS

- **Disposal methods and containers :**

Whatever can not be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change waste management options. State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

- **Special precautions for landfill or incineration :** Nil

SECTION 14 TRANSPORT INFORMATION

Not regulated

SECTION 15 REGULATORY INFORMATION

The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation.

Chemical Inventory Status – Part – I

Ingredient : Iron Oxide (Fe₂O₃) (1309-37-1)

Australia : Yes

TSCA – Yes

EC – Yes

Japan : Yes

**Chemical Inventory Status – Part – 2**

Korea – Yes
DSL – Yes
NDSL : No
Phil - Yes

Federal .State & International regulations – Part 1

SARA 302
SARA 313

Chemical Weapons Convention : No
TSCA 12(b) : No
CDTA : No

SARA311/312 :

Acute : Yes , Chronic : Yes, Fire : No, Pressure : No, Reactivity : No.,(Pure/Solid)

Australian Hazchem Code : None allocated

Poison Schedule : None Allocated

WHMIS: This MSDS has been prepared according to the hazard criteria of the controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Additional information

☐ Additional national and/or international regulatory information. : Nil

SECTION 16**OTHER INFORMATION****NFPA Ratings :**

Health : 1
Flammability : 0
Reactivity : 0

Label Hazard Warning:

Warning: Harmful if inhaled. Affects respiratory system. May cause irritation, to eyes and respiratory tract.

Label Precautions:

Avoid Contact with Eyes, skin & clothing
Wash thoroughly after handling
Avoid Handling Dust
Keep Container Closed
Use only with adequate Ventilation

**Label First Aid:**

If inhaled, move to fresh air. Get Medical attention for any breathing difficulty. In case of eye contact, immediately flush eyes with plenty of water for atleast 15mins. Get medical attention if irritation develops/persists .

- **Product Use : For Industrial Use**
- **Source of Information : Our Technical Department , Internet search**
- **Date of Preparation of MSDS : 01/04/2008**
- **Revision Information : 0**

The information provided is based on the current state of knowledge. This data sheet of security describes the product solely from the aspect of security. The data above does not have the value of warranty regarding the composition, properties or performance of the products.