



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.0 Revision date

02/15/2011

1.1 Identification of the substance

Product name: Black 4318

Chemical name: EC name: Triiron tetraoxide (Fe₃O₄) EC number: 215-277-5
CAS name: Iron oxide (Fe₃O₄) CAS number: 1317-61-9
C.I.: Pigment black 11

REACH Pre-registration number: WN172640-19

1.2 Use of the substance/

Colouration in a variety of coating applications including paints, plastics, rubber and concrete products.

1.3 Company/undertaking identification and emergency telephone

Supplier: Hangzhou Synox Pigments Co., Ltd.
1304 TianHeng Building, 1509 Binsheng Road
Binjiang District, Hangzhou, Zhejiang, China
Tel: +86-571-87156383, Fax: +86-571-87156373

1.4 emergency telephone

Tel: +86-571-87156383

2. HAZARDS IDENTIFICATION

No classification required/no hazards according to Annex 1 of Directive 67/548/EEC.

Risk Phrases: Do not breathe dust.

Note: This Material Safety Date Sheet may not provide exhaustive guidance for all REACH Controls assigned to this substance.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product name: Black 4318
EC name: Triiron tetraoxide (Fe₃O₄) **EC number:** 215-277-5
CAS name: Iron oxide (Fe₃O₄) **CAS number:** 1317-61-9
C.I.: Pigment black 11
Formula: Fe₃O₄
Molecular: 231.53
Hazards: No



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4. FIRST AID MEASURES

Inhalation: Remove from dusty area to fresh area. If not breathing gives artificial respiration. If breathing is difficult, give oxygen and call a physician.

Skin Contact: Wash thoroughly with soap and water

Eye Contact: Flush with water for 15 minutes, lifting lids periodically. Seek medical attention if irritation persists.

Swallowed: Rinse mouth with water. Give water to drink. Do not induce vomiting. If symptoms develop, seek medical attention.

5. FIRE-FIGHTING MEASURES

Flammability: Nonflammable inorganic pigment product.

Extinguishing media: Use appropriate extinguishing media most suitable for surrounding fire.

Special protective equipment: Self contained breathing apparatus, plus full protective equipment recommended.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures: Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Evacuate all unnecessary personnel. Increase ventilation. Stop leak if safe to do so. Do NOT let product reach drains of waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local waste Management.

Methods and materials for containment and clean up:

Avoid generating dust. Contain and sweep up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and hold for safe disposal.

7. HANDLING AND STORAGE

HANDLING: Steps To Be Taken if Materials Is Spilled or Released: vacuum or scoop material into an appropriately marked container for reclamation or disposal. Avoid excessive generation of dust. If dust is generated, use appropriate respiratory protection. Avoid breathing dust, and skin and eye contact. Wash thoroughly after handling.

STORE: Store in a cool, dry, well-ventilated area. Store away from other chemical products.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values:	TWA 10mg/m ³ (Iron Oxide fume as Fe)	
Biological limit values:	No information available on biological limit values for this product.	
Engineering Controls:	Keep employee exposures as low as possible. Keep container enclosed when not in use.	
Personal protection:	Respiratory Protection:	Dust respirator.
	Protective Gloves:	Yes.
	Eye Protection:	Safety glasses
	Ventilation:	Do not use in small-enclosed area.
	Hygienic Work Practices:	Wash hands with soap and water after contact.
Environmental exposure controls:	Secure source of ignition and avoid raising dust.	

9. PHYSICAL AND CHEMICAL PROPERTIES

General information:			
Appearance:	Black powder.		
Odour:	Odourless		
Important health, safety and environmental information			
PH Value(10g/l water):	3.5-8.0	Vapour pressure:	N/A
Boiling Point:	N/A	Relative density:	4.0-5.0
Flash Point:	N/A	Viscosity:	N/A
Explosive properties:	Not explosive.	Water solubility:	No solubility.
Oxidizing properties:	No oxidizing properties.		

10. STABILITY AND REACTIVITY

Chemical stability:	Product is stable under normal of condition of use, storage, and temperature.
Conditions to avoid:	Avoid excessive heat, static discharge, generating, moisture and high temperatures.
Incompatible materials:	Incompatible with strong oxidizing agents, carbon monoxide, performic acid and source of ignition.
Hazardous decomposition products:	No decomposition at proper storage and application conditons.
Hazardous reaction:	No hazardous reactions.



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11. TOXICOLOGICAL INFORMATION

Toxicity data: Oral LD50 RAT>1000mg/kg. Not considered a carcinogenic substance

Health effects of acute overexposure:

Swallowed: Ingestion of large amounts may cause gastric disturbances, nausea of vomiting.

Eye: May cause mild eye discomfort or physical irritation.

Skin: Skin irritation is not expected. Avoid repeated or prolonged contact with skin.

Inhaled: Inhalation of dust may cause some irritation to the nose, throat and respiratory tract.

12. ECOLOGICAL INFORMATION

Ecological toxicity: Fish toxicity LC0>1000mg/Lt (Leuciscus idus Fresh water fish, 48hr). Does not contain ozone depleting compounds. Water Hazard Class WGK0-non hazardous (Self assessment according to the German Water Utilization Act).

Persistence and degradability: Not biodegradable as product is insoluble in water.

Mobility: Non volatile, insoluble in water, Floats on water.

Environmental Fate(Exposure): Avoid contaminating waterways, drains and sewers.

Bioaccumulative Potential: No information available on bioaccumulation for this product.

13. DISPOSAL CONSIDERATIONS

Disposal: Dispose of in according with all local, state and federal Regulations. All empty packaging should be disposed of in accordance with local, state and Federal Regulation or recycled/reconditioned at an approved facility.

Special precautions for Land Fill or Incineration: Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Not classified by Annex 1 of Directive 67/548/EEC.

Not classified by IMDG/IATA.

Not defined as a dangerous goods for transport by road or rail.



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15. REGULATORY INFORMATION

Classified as non hazardous/dangerous substance according to Annex 1 of Directive 67/548/EEC

16. OTHER INFORMATION

The information contained herein is based on the present state of our knowledge. All data given are in good faith but no warranty, expressed or implied, is made.

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