Material Safety Data Sheet

According to 91/155/EEC and ISO 11014-1

Date:10th Jan.2020

1. IDENTIFICATION OF SUBSTANCE
   Company Name: wuxi lianghai imp and exp. Co.ltd
   Product Name: Iron Oxide Black
   Telephone:0086-0510-87110569
   Emergency Information: Telephone:

2. COMPOSITION/DATA ON COMPONENTS
   Chemical characterization:
   Synthetic iron oxide Fe_3O_4, C.I. Pigment BLACK 11, CAS. No. 1317-61-9
   Dangerous components: None

3. HAZARDS IDENTIFICATION
   **********Emergency Overview**********
   May cause mechanical irritation to the eyes, skin and respiratory tract, Irritating gases/fumes may be given off during burning or thermal decomposition.
   ****
   HMIS Codes: H=0,F=0,R=0,P=0 (0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe)
   Eyes: Non-irritating to eyes. Excessive exposure to airborne dust may reduce visibility and/or cause unpleasant deposits.
   Skin: will not irritate skin and is not likely to cause allergic skin reaction. Injury to the skin or mucus membranes can occur by direct mechanical action or by rigorous skin cleaning necessary for removal of dust.
   Other effects: none known.
   Not a hazard in normal industrial use. No harmful effects observed.
   The product is not a substance subject to mandatory marking in accordance with the EEC Directive 67/584/EEC or amendments.

4. FIRST AID MEASURES
   First aid for skin: In case of skin contact, immediately flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.
   First aid for ingestion: Immediately contact a physician.
   First aid for eyes: Flush eyes with plenty of water, lifting lids periodically for at least 15 minutes. Consult a physician if irritation persists.
   First aid for inhalation: Remove from dusty area to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

5. FIRE FIGHTING MEASURES
   Product is non-combustible.
   Upper Explosive Limit(UEL): Will not explode.
   Lower Explosive Limit(LEL): Will not explode.
   Fire Fighting Instructions: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes and smoke inhalation.
   Suitable extinguishing media: Material is not combustible. Use extinguishing media suitable for other combustible materials in the area.
   Special hazards caused by the material, its combustion products for resultant gases: none
   Flash point: Not applicable.
   Auto-ignition temperature: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Small spill: if dust is generated, use appropriate respiratory protection. Vacuum or scoop material into an appropriately marked container for re-use or disposal. Avoid excessive generation of dust.

Large spill: Use recommend protective clothing and respiratory protection. Use shovel to reclaim material.

Vacuum or scoop material into an appropriately marked container for re-use or disposal. Avoid excessive generation of dust. Spill area can be washed with water. Collect wash water for approved disposal. Prevent runoff from entering storm sewers and ditches, which lead to natural waterways.

Environmental protection conduct: Do not sweep or wash into public stretches of water, sewers or sites of unknown discharge paths.

After spillage/leakage/gas leakage:

Clean up immediately with wetting or absorbent material avoiding dusting.

7. HANDLING AND STORAGE

Storage:

Storage dry at ambient temperature away from food and beverages, excessive heat or flame sources (furnace, kilns, boilers etc.) store away form substances subject to catalytic decomposition by dust e.g. peroxides.

Handling:

Usual precautions for nuisance dust should be observed.

Protection against fire and explosion:

The product is non-flammable

Flammability Class: not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional notes for design of plant equipment:

No further details, see sec. 7

Components with workplace-related limits to be monitored:

Designation	%	Type of data	Unit
Nuisance dust	100	MAK	6 mg/m^3
		TLV/TWA(USA)	10 mg/m^3

Additional protective measures: Eye wash stations and washing facilities should be available. Employees should wash their hands and face before eating, drinking or using tobacco products.

Respiratory protection: An appropriate dust filter has to be used if a breathable dust is liberated.

Eye protection requirements: Safety glasses are recommended.

Skin protection requirements: Rubber, cloth, or plastic gloves are recommended to reduce skin contact where appropriate for job conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: powder

Color: black

Odor: odorless

Method	Value/Area	Unit
Change in physical state		

Thermal Decomposition: n.a. ℃
Lit.
Flash point: not flammable
Flammable properties: The product is not flammable under standardized conditions.
Explosion risks: The product is not explosive.
Specific Gravity: Greater than 1.
Viscosity: Not applicable.
Vapour pressure: Not applicable. n..a. mbcar
Density: (20℃) 4.1 g/cm^3
DIN/ISO 787 part 10
B
Solubility in water: (20℃) <0.5 %
DIN/ISO 787 part 3
PH-Value: (at 100 g/l H_2O) (20℃) ca.3.5-7
DIN/ISO 787 part 9

10. STABILITY AND REACTIVITY
Hazardous Polymerization: Will not occur.
Stability: Stable Material.
Incompatibilities: None known.
Instability conditions: None known.
Decomposition temperature: Greater than 120℃.
Decomposition products: None known.

11. TOXICOLOGICAL INFORMATION
Acute Toxicity:
LD50/oral/rat: Not tested.
LD50/inhal/rat: Not tested.
Sensitizing: None expected.
Primary skin irritation/rabbit: No data available.
Because of experiences with the product mentioned, there are on recognizable hazards for human beings, if it is correctly used and applied.

12. ECOLOGICAL INFORMATIONS
Mobility: No data available.
Degradability: No data available.
Accumulation: No data available.
Short and long term effects on:
Ecotoxicity: No data available.
Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS
Product: Material which can not be re-used should be disposed in according with federal, state and local environmental control regulations at an authorized site by an approved contractor. This product when discarded as sold is not a RCRA hazardous waste. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified
as a hazardous waste. (40CFR 261.20-24)
Waste Code No.:
Check re-use as alternative.
Contaminated packages and containers:
Emptied, but contaminated packages and containers may be recycled.
Waste Code No.: 18715 (Germany)

14. TRANSPORT INFORMATION

International:
Land transport: ADR/RID/GGVS/GGVE: Not Regulated
Sea transport: IMDG/GGV See UN-No.: Not Regulated
Air transport: ICAO/IATA UN/ID-No.: Not Regulated

U.S. D.O.T. Classification: Not Regulated
CANADA Transport of dangerous goods: Not Regulated

DOT Shipping Name: None
Technical Shipping Name: Inorganic Oxide
DOT Hazardous Classification: Non-Regulated. This product is not classed as a dangerous substance under the classification, Packaging and Labeling of Dangerous Goods Act.
DOT Hazard Class: Non-Regulated.
DOT Identification Number: None
DOT Labels required: None
DOT Placards required: None. No specific transportation precautions required.
UN Class: None
UN/NA Number: None

15. REGULATORY INFORMATION
Labeling according to EEC Directives: Not regulated.
SARA
SARA 312:

Health: Immediate (Acute): No* Fire: None
Delayed (Chronic): No** Reactivity: None
Sudden release of pressure: None

Not an acute hazard however may cause irritation due to abrasiveness.
These products are not classified as Carcinogens by the National Toxicology Program, the International Agency for Research on Cancer or the Occupational Safety and Health Administration. We do not know of any chronic health effect from these products. The finished pigment is a fine powder and may increase the risk of respiratory and skin disorders aggravated by dust.

The product is not a substance subject to mandatory marking in accordance with the EEC Directive 67/548/EEC or amendments.

Water risk class: WGK 0 (Self-assessment, acc. to § 7a 19,19a-1 of German Water Utilization Act (WHG).

16. FURTHER INFORMATION:
HMIS Codes: H=0,F=0,R=0,P=0 (0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe)
Vertical markings at left margin denote alterations of previous issue.
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Department issuing this data sheet: Product safety department