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SAFETY DATA SHEET
Synthetic Black Iron Oxide (Group III)
 Laguna Clay Company # MIROXBKOI

1. Identification

Product identifier

Product name Synthetic Black Iron Oxide (Group III)
Chemical name Black Iron Oxide (Fe₃O₄)
Product number BK4799, BK5000, BK5099, BK5099D, BK5599, BK5999, TB5600, TB5625, TB5645, TB5980

Recommended use of the chemical and restrictions on use

Application Industrial color

Details of the supplier of the safety data sheet

Supplier Huntsman Pigments Americas LLC
 P.O. Box 4980
 The Woodlands, TX 77387
 +1 301 210 3400 / +1 323 269 7311
 MSDS@huntsman.com

Emergency telephone number

Emergency telephone CHEMTREC: (800) 424-9300 (Contract No: 191118)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Self-heat. 2 - H252
Health hazards Not Classified
Environmental hazards Not Classified

Environmental The product is not expected to be hazardous to the environment.

Label elements

Pictogram



Signal word Warning

Hazard statements H252 Self-heating in large quantities; may catch fire.

Precautionary statements P235+P410 Keep cool. Protect from sunlight.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P407 Maintain air gap between stacks/pallets.
 P413 Store bulk masses greater than kg/lbs at temperatures not exceeding °C/°F.
 P420 Store away from other materials.

Other hazards

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NOT CLASSIFIED Self-heating in packages up to 450 liters capacity.

3. Composition/information on ingredients

Mixtures

C.I. Pigment Black 11 (Group III)	99.0%
CAS number: 1317-61-9	
Classification	
Self-heat. 2 - H252	

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Never give anything by mouth to an unconscious person.
Skin Contact	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Rinse with water. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed

Inhalation	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Ingestion	Due to the physical nature of this material it is unlikely that swallowing will occur.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
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Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
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Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions Avoid spreading dust or contaminated materials. Avoid the spillage or runoff entering drains, sewers or watercourses.

Methods and material for containment and cleaning up

Methods for cleaning up Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Avoid generation and spreading of dust.

Reference to other sections For personal protection, see Section 8.

7. Handling and storage

Precautions for safe handling

Usage precautions Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. For pallets wrapped in polyethylene plastic, removal may cause an electrostatic spark; removal of the wrap should not be done in the presence of flammable vapors.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep container dry.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

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Respiratory protection	Wear NIOSH-certified particulate respirator
Environmental exposure controls	Keep container tightly sealed when not in use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Dusty powder.
Color	Black.
Odor	Odorless.
Initial boiling point and range	Not relevant.
Solubility(ies)	Insoluble in water.
Other information	No information required.
Volatile organic compound	This product contains a maximum VOC content of None .

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Exposure to heat greater than 55C (130F) can cause this product to slowly auto-oxidize, which generates additional heat. Under certain circumstances, this heat may be sufficient to cause the bag or combustible materials stored nearby to ignite. Once oxidized, the material will be a brown ferric oxide (Fe ₂ O ₃).
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation. Keep at temperature not exceeding 55°C/130°F.
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Will decompose at temperatures exceeding 55°C/130°F.

11. Toxicological information

Information on toxicological effects

Toxicological effects	No data recorded.
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12. Ecological Information

Ecotoxicity	The product is not expected to be hazardous to the environment.
<u>Persistence and degradability</u>	
Persistence and degradability	The product is not readily biodegradable.
<u>Bioaccumulative potential</u>	
Bio-Accumulative Potential	Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
<u>Mobility in soil</u>	

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Mobility The product is insoluble in water.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information Waste to be treated as controlled waste. Disposal in accordance with federal, state and local regulations.

14. Transport information

General This product is NOT REGULATED when the individual package size is less than 450 liters in volume. OTHERWISE, this product is regulated as follows:

UN Number

Not applicable.

UN No. (IMDG) 3190

UN No. (ICAO) 3190

UN proper shipping name

Not applicable.

Proper shipping name (DOT) SELF-HEATING SOLID, INORGANIC, N.O.S. (CONTAINS C.I. Pigment Black 11 (Group III))

Proper shipping name (IMDG) SELF-HEATING SOLID, INORGANIC, N.O.S. (CONTAINS C.I. Pigment Black 11 (Group III))

Proper shipping name (ICAO) SELF-HEATING SOLID, INORGANIC, N.O.S. (CONTAINS C.I. Pigment Black 11 (Group III))

Transport hazard class(es)

No transport warning sign required.

DOT hazard class 4.2

DOT hazard label Spontaneously Combustible

IMDG Class 4.2

ICAO class/division 4.2

Transport labels



Packing group

Not applicable.

DOT pack group III

IMDG packing group III

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ICAO packing group III

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

EmS F-A, S-J

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

None of the ingredients are listed or exempt.

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

US State Regulations

State Regulations Comments California Prop 65 Warning: This product contains chemicals, as trace impurities and not intentionally added, known to the state of California to cause cancer (C) and birth defects or other reproductive (R) harm.

Inventories

EU - EINECS/ELINCS

EINECS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

DSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

No.

Australia - AICS

All the ingredients are listed or exempt.

Japan - MITI

All the ingredients are listed or exempt.

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Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines - PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

16. Other information

Issued by	Product Regulations Dept
Revision date	1/26/2016
Revision	13
Supersedes date	12/9/2015
SDS No.	18367
SDS status	Approved.
Hazard statements in full	H252 Self-heating in large quantities; may catch fire.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.