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SAFETY DATA SHEET Synthetic Black Iron Oxide (Group III)

Laguna Clay Company # MIROXBKOI

Distributed by: Laguna Clay Company 14400 Lomitas Ave City of Industry, CA 91746 1-800-4Laguna info@lagunaclay.com www.lagunaclay.com

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	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	ze 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			

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

3. Composition/information on	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 Sta	atements are Displayed in Section 16.		
4. First-aid measures			
Description of first aid measure	25		
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 medica	al attention and special treatment needed		
Notes for the doctor	Treat symptomatically.		
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	ne substance or mixture		
Specific hazards	No unusual fire or explosion hazards noted.		
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.		

Special protective equipment Use protective equipment appropriate for surrounding materials. **for firefighters**

6. Accidental release measure	95	
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 cont	ainment 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, in	cluding 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/persona	I 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	Keep container tightly sealed when not in use.
controls	Reep container lightly sealed when not in use.
9. Physical and Chemical Prop	erties
Information on basic physical a	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 (Fe2O3).
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 effe	ects
Toxicological effects	No data recorded.
12. Ecological Information	
Ecotoxicity	The product is not expected to be hazardous to the environment.
Persistence and degradability	
Persistence and degradability	The product is not readily biodegradable.
Bioaccumulative potential	
Bio-Accumulative Potential	Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
Mobility in soil	

Mobility	The product is insoluble in water.
Results of PBT and vPvB asse	essment
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 requ	uired.
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

ICAO packing group Ш Environmental hazards **Environmentally Hazardous Substance** No. Special precautions for user Not applicable. EmS F-A, S-J Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code 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 DSI 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.

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.