

Enriching lives through innovation

SAFETY DATA SHEET Iron Oxide blend

| 1. Identification | | |
|---|--|--|
| Product identifier | | |
| Product name | Iron Oxide blend | |
| Product number | 10078,10134,10233,10445,1385,5084,5859,51140,61348,63397 | |
| Recommended use of the chemical and restrictions on use | | |
| Application | Industrial color | |
| Details of the supplier of the s | 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 numbe | r | |
| Emergency telephone | CHEMTREC: (800) 424-9300 (Contract No: 191118) | |
| 2. Hazard(s) identification | | |
| Classification of the substance | e or mixture | |
| Physical hazards | Not Classified | |
| Health hazards | Not Classified | |
| Environmental hazards | Not Classified | |
| Label elements | | |
| Hazard statements | NC Not Classified | |
| 3. Composition/information or | ingredients | |
| Mixtures | | |
| C.I. PIGMENT RED 101 | < 80% | |
| CAS number: 1309-37-1 | REACH registration number: Proprietary | |
| Classification Not Classified | | |
| C.I. PIGMENT YELLOW 42 | < 60% | |
| CAS number: 51274-00-1 | REACH registration number: Proprietary | |
| Classification Not Classified | | |

| CALCIUM CARBONATE | < 20% |
|--|---|
| CAS number: 1317-65-3 | REACH registration number: Proprietary |
| Classification | |
| Not Classified | |
| C.I. PIGMENT BLACK 11 | < 15% |
| CAS number: 1317-61-9 | REACH registration number: Proprietary |
| Classification Not Classified | |
| The Full Text for all Hazard St | atements are Displayed in Section 16. |
| 4. First-aid measures | |
| Description of first aid measur | es |
| Inhalation | If exposed to excessive levels of dust or fumes, remove to fresh air. Get medical attention if cough or other symptoms develop. |
| Ingestion | Rinse mouth thoroughly with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed by medical personnel. Get medical attention if symptoms occur. |
| Skin Contact | Wash with soap and water. Get medical attention if irritation develops or persists. |
| Eye contact | Rinse with water. Get medical attention if any discomfort continues. |
| 5.Fire-fighting measures | |
| Extinguishing media | |
| Suitable extinguishing media | The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Extinguish with the following media: Water spray, foam, dry powder or carbon dioxide. |
| Special hazards arising from t | he substance or mixture |
| Flammability Class | No Uniform Fire Code noted. |
| Advice for firefighters | |
| Protective actions during firefighting | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
| Special protective equipment for firefighters | Wear self-contained breathing apparatus as combustion may produce hazardous fumes. |
| 6. Accidental release measure | 8 |
| Methods and material for cont | ainment and cleaning up |
| Methods for cleaning up | If dust is generated, use appropriate respiratory protection. Vacuum or sweep up material and |
| | along in a dispanal container. Avoid conception and encoding of duct Lange Chillence Man |

| Methods for cleaning up | If dust is generated, use appropriate respiratory protection. Vacuum or sweep up material and |
|-------------------------|---|
| | place in a disposal container. Avoid generation and spreading of dust. Large Spillages: Wear |
| | suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing |
| | or apron, as appropriate. Collect and place in suitable waste disposal containers and seal |
| | securely. Label the containers containing waste and contaminated materials and remove from |
| | the area as soon as possible. Flush contaminated area with plenty of water. Avoid runoff into |
| | storm sewers and ditches which lead to waterways. |
| | |

7. Handling and storage

| Precautions for safe hand | ling |
|---|--|
| Usage precautions | Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with skin and eyes. Wash contaminated skin thoroughly after handling. |
| Conditions for safe storag | e, including any incompatibilities |
| Storage precautions | Store dry at ambient temperature away from food and beverages, excessive heat or flame sources (furnace, kilns, boilers etc.). Store away from substances subject to catalytic decomposition by dust, e.g. peroxides Store at temperatures not exceeding 55°C/130°F. |
| 8. Exposure Controls/pers | sonal protection |
| Control parameters | |
| Occupational exposure lin C.I. PIGMENT RED 101 | nits |
| Long-term exposure limit (8-hour TWA):OSHA 10 mg/m³fumeLong-term exposure limit (8-hour TWA):OSHA 15 mg/m³total dustLong-term exposure limit (8-hour TWA):OSHA 5 mg/m³respirable fractionLong-term exposure limit (8-hour TWA):ACGIH 5 mg/m³respirable fractionA4 | |
| 1 | fety and Health Administration. erence of Governmental Industrial Hygienists. a Human Carcinogen. |
| Ingredient comments | Although no exposure limit has been established by OSHA for this product, the limit for nuisance particulates should be followed: OSHA 8-hr TWA 10mg/m3 Total Dust 5 mg/m3 respirable dust. ACGIH TLV-TWA 10mg/m3 Total dust or 5mg/m3 respirable dust. |

9. Physical and Chemical Properties

| Information on basic physical and chemical properties | |
|---|----------------------------------|
| Appearance | Dusty powder. |
| Color | Brown. |
| Odor | Odorless. |
| Odor threshold | Not available. |
| рН | pH (diluted solution): 4-8 @ 10% |
| Melting point | > 1000 deg C / 1832 deg F |
| Initial boiling point and range | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Evaporation factor | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | Not available. |
| Other flammability | Not available. |
| Vapour pressure | Not available. |
| Vapour density | Not available. |

| Relative density | Not available. |
|------------------------------------|---|
| Bulk density | Not available. |
| Solubility(ies) | Insoluble in water. |
| Partition coefficient | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition Temperature | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Volatile organic compound | None. |
| 10. Stability and reactivity | |
| Reactivity | There are no known reactivity hazards associated with this product. |
| Stability | From ca. 60°C, transformation of black iron oxide to Fe2O3 will occur as an exothermic reaction. Yellow iron oxide will lose water of hydration at 180°C and convert to Fe2O3. |
| Possibility of hazardous reactions | None known. |
| Conditions to avoid | Keep at temperature not exceeding 55°C/130°F. |
| Materials to avoid | Substances subject to catalytic decomposition caused by dust such as peroxides. Further avoid contact with aluminum dust, calcium hypochlorite, hydrazine, ethylene oxide, caesium carbide. |
| Hazardous decomposition products | No known hazardous decomposition products. |
| 11. Toxicological information | |
| Information on toxicological eff | fects |
| Toxicological effects | No information available. |
| Inhalation | Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. |
| Ingestion | No harmful effects expected from quantities likely to be ingested by accident. |
| Skin Contact | Substance may cause slight skin irritation. |
| Eye contact | May cause slight irritation. |
| 12. Ecological Information | |
| Ecotoxicity | The product is not expected to be hazardous to the environment. |
| Persistance 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. |
|------------------------------------|---|
| Partition coefficient | Not available. |
| Mobility in soil | |
| Mobility | The product is insoluble in water. |
| Results of PBT and vPvB ass | 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 | Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. |
| 14. Transport information | |
| General | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT). |
| 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.

OSHA Highly Hazardous Chemicals

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.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List

C.I. PIGMENT YELLOW 42 Not listed.

C.I. PIGMENT RED 101 Present.

C.I. PIGMENT BLACK 11 Not listed.

CRYSTALLINE SILICA Present.

CALCIUM CARBONATE Yes.

Rhode Island "Right To Know" List

C.I. PIGMENT YELLOW 42 Not listed.

C.I. PIGMENT RED 101 Present.

C.I. PIGMENT BLACK 11 Not listed.

CRYSTALLINE SILICA Present.

CALCIUM CARBONATE Yes.

Minnesota "Right To Know" List

C.I. PIGMENT YELLOW 42 Not listed.

C.I. PIGMENT RED 101 Present.

C.I. PIGMENT BLACK 11 Not listed.

CRYSTALLINE SILICA Present.

CALCIUM CARBONATE Yes.

New Jersey "Right To Know" List

C.I. PIGMENT YELLOW 42 Not listed.

C.I. PIGMENT RED 101 Present.

C.I. PIGMENT BLACK 11 Not listed.

CRYSTALLINE SILICA Present.

CALCIUM CARBONATE Yes.

Pennsylvania "Right To Know" List

C.I. PIGMENT YELLOW 42 Not listed.

C.I. PIGMENT RED 101 Present.

C.I. PIGMENT BLACK 11 Not listed.

CRYSTALLINE SILICA Present.

CALCIUM CARBONATE Yes.

Inventories

EU - EINECS/ELINCS All the ingredients are listed or exempt.

Canada - DSL/NDSL

C.I. PIGMENT YELLOW 42 Domestic Substance List

C.I. PIGMENT RED 101 DSL

C.I. PIGMENT BLACK 11 DSL

CALCIUM CARBONATE Non Domestic Substance List

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

C.I. PIGMENT YELLOW 42 No. C.I. PIGMENT RED 101 Yes C.I. PIGMENT BLACK 11 Yes CALCIUM CARBONATE No.

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 | |
|-----------------------|-----------|
| Revision date | 6/9/2015 |
| Revision | 3 |
| Supersedes date | 6/9/2015 |
| SDS No. | 21227 |
| SDS status | Approved. |

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