# SAFETY DATA SHEET

## SECTION 1 Identification

**Product identifier**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Synthetic Yellow Iron Oxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product number</td>
<td>Y810T</td>
</tr>
<tr>
<td>CAS number</td>
<td>51274-00-1</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

<table>
<thead>
<tr>
<th>Application</th>
<th>Industrial color</th>
</tr>
</thead>
</table>

**Details of the supplier of the safety data sheet**

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Shanghai Yipin Pigments Co.Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4839 Jiasong bei Rd.</td>
<td>Shanghai, China 201814</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emergency information</th>
<th>Yipin Pigments Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9843 6th St. Suite 105</td>
<td>Rancho Cucamonga, CA 91730</td>
</tr>
<tr>
<td>Tel.: 909-243-7394</td>
<td></td>
</tr>
</tbody>
</table>

## SECTION 2 Hazards Information

**Classification of the substance or mixture**

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Not Classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>Not Classified</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Not Classified</td>
</tr>
</tbody>
</table>

**Label elements**

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>NC Not Classified</th>
</tr>
</thead>
</table>

## SECTION 3 Composition/Information on Ingredients

**Mixtures**

<table>
<thead>
<tr>
<th>C.I. PIGMENT YELLOW 42</th>
<th>&gt; 94%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number:</td>
<td>51274-00-1</td>
</tr>
<tr>
<td>REACH registration number</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

**Classification**

<table>
<thead>
<tr>
<th>ALUMINUM OXIDE</th>
<th>Not Classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number:</td>
<td>&lt; 4</td>
</tr>
<tr>
<td>REACH registration number</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

**Classification**

<table>
<thead>
<tr>
<th>Not Classified</th>
</tr>
</thead>
</table>
The Full Text for all Hazard Statements are Displayed in Section 16.

**Composition comments**
Yellow iron hydroxide oxide, FeOOH / C.I. Pigment Yellow 42 : Alternative CAS No. 20344-49-4, Alternative EINECS No. 243-746-4

**SECTION 4  First Aid Measures**

**Description of first aid measures**

**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.

**SECTION 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 the 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.

**SECTION 6  Accidental release measures**

**Methods and material for containment and cleaning up**

**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.
**SECTION 7  Handling and storage**

**Precautions for safe handling**

**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 storage, 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.

**SECTION 8  Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

**ALUMINUM OXIDE**

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
OSHA = Occupational Safety and Health Administration.

**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.

**SECTION 9  Physical and chemical properties**

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dusty powder.</td>
</tr>
<tr>
<td>Color</td>
<td>Yellow.</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>pH (diluted solution): 4 - 8 @ 10%</td>
</tr>
<tr>
<td>Melting point</td>
<td>&gt; 1000 °C (&gt;1832°F)</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other flammability</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Explosive properties
Volatile organic compound
   Not available.
   None.

SECTION 10 Stability and Reactivity

Stability
   No particular stability concerns. Temperatures of approximately 180° C and above, result in dehydration to Fe2O3.

Conditions to avoid
   Avoid heat.

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.

SECTION 11 Toxicological information

Information on toxicological effects

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.

SECTION 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.

Partition coefficient
   Not available.

Mobility in soil

Mobility
   The product is insoluble in water.

Other adverse effects

Other adverse effects
   None known

SECTION 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.

SECTION 14 Transport Information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

UN Number
Not applicable.

UN proper shipping name
Not applicable.

Transport hazard class(es)
No transport warning sign required.

DOT hazard class
Not regulated.

DOT hazard label
No DOT label requirement noted

Packing group
Not applicable.

Environmental hazards
Not applicable.

Special precautions for user
No.

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

SECTION 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

ALUMINUM OXIDE
1.0 %

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.

Massachusetts "Right To Know" List
C.I. PIGMENT YELLOW 42
Not listed.
ALUMINUM OXIDE
Present.

Rhode Island "Right To Know" List
C.I. PIGMENT YELLOW 42
Not listed.

ALUMINUM OXIDE Present.

Minnesota “Right To Know” List
C.I. PIGMENT YELLOW 42 Not listed.
ALUMINUM OXIDE Not listed.

New Jersey “Right To Know” List
C.I. PIGMENT YELLOW 42 Not listed.
ALUMINUM OXIDE Present.

Pennsylvania “Right To Know” List
C.I. PIGMENT YELLOW 42 Not listed.
ALUMINUM OXIDE Present.

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
C.I. PIGMENT YELLOW 42 No.
ALUMINUM OXIDE Yes

Korea - KECl
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.

SECTION 16 Other information
Hazardous Material
Information System:

<table>
<thead>
<tr>
<th>Health</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Physical hazards</td>
<td>0</td>
</tr>
</tbody>
</table>

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
* =Chronic

The customer is responsible for determining the PPE code for this material.
National Fire Protection
Association (U.S.A.) :
Synthetic Yellow Iron Oxide  Y810T

SECTION 16  Other information

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Instability/Reactivity</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Yipin’s method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by Yipin as a customer service.

Notice to reader:

Approval or Revision History
Date of Issue: (mm/dd/yyyy) 07/28/2014
Revision May 2015 Revised Section(S) per HCS-GHS

Notice to Reader
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is provided solely for the customer’s consideration, investigation and verification. Hereby specifically claims. It shall not be held liable for any damage resulting from handling or from contact with the above products.

Seller makes no warranty, express or implied, concerning the product or the merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by Yipin.