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SAFETY DATA SHEET

SECTION 1 Identification

Product identifier Iron Oxide Yellow 8313

Identified uses Inorganic pigment

Manufacturer Huayi Yipin (Yixing) Performance Pigment Co., Ltd.
4839 Jiasong bei Rd,
Shanghai, China 201814

SECTION 2 Hazards Information

HAZCOM standard Status This Material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR Part 1910.1200),this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Physical state Powder
Color Yellow
Classification of the substance or mixture Not classified
Signal word No signal word
Hazard statements No known significant effects or critical hazards
Hazard Not Otherwise Classified(HNOC) None Known.

Precautionary statements
Prevention Not applicable.
Response Not applicable.
Storage Not applicable.
Disposal Not applicable.
Supplemental label elements Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

SECTION 3 Composition/Information on Ingredients

Substance/mixture Substance

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4 First Aid Measures

Description of first aid measures:

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing becomes difficult.

Skin contact Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation Occurs.

Ingestion Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop giving water if the exposed person feels sick as vomiting may be dangerous. Get medical attention if symptoms occur.

Potential symptoms and effects from acute exposures:

Eye contact May cause mechanical irritation(Abrasion).
Inhalation No known significant effects or critical hazards.
Skin contact May cause mechanical irritation(Abrasion).
Ingestion No known significant effects or critical hazards.

Potential Symptoms and effects from over-exposures:

Eye contact No specific data.
Inhalation No specific data.
Skin contact No specific data.
Ingestion No specific data.

Potential Chronic Health effects

No known significant effects or critical hazards.
Recommendations for immediate medical attention/treatment:

Notes to physician Treat symptomatically. No specific treatment.
Protection of first-aiders No special measures required.

See toxicological information(Section 11)

SECTION 5 Fire-fighting measures

Extinguishing media:

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray(fog),foam or dry chemical.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical No specific fire or explosion hazard.

Hazardous thermal decomposition products Decomposition products may include the following materials:

sulfur oxides
metal oxide/oxides

Special protective actions for firefighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 Accidental release measures

Personal precautions, Protective equipment and emergency procedures No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personal from entering. Do not touch or walk through spilled material. Avoid breathing dust. Put on appropriate personal protective equipment.

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution(Sewers, waterways, soil or air).

Methods and materials for containment and cleaning up Move containers from spill area. Approach release from upwind. Vacuum or sweep up material and place in a designed,labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

SECTION 7 Handling and storage

Precautions for safe handling

Protective measures: Avoid breathing dust. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers or liners may retain some product residues.

SECTION 8 Exposure controls/personal protection

Occupational exposure limits
No exposure limit value known.

Appropriate engineering Controls Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate contaminated clothing before using. Ensure that eyewash stations and safety shower are close to the workstation location.

Eye/face protection If contact with product is possible, wear safety glasses with side shields.

Skin protection Wear suitable protective clothing and gloves. Suitable protective footwear.

Respiratory protection Dust-Production mask if there is a risk of dust formation.

Medical Surveillance Not available.

SECTION 9 Physical and chemical properties

Physical State	Solid. Powder
Color	Yellow.
Odor	Odorless.
Odor threshold	Not available.
Ph	3.5 to 7.0(Conc.(% w/w): 5%)
Boiling point	Not available.
Melting point	> 1000 °C(>1832°F)
Flash point	Not available.
Evaporation rate	Not available.
Explosion limits	Not available.
Vapor pressure	Not available.
Specific gravity (Relative density)	Not available.
Density	approx. 4.0g/cm³ at 20 °C
Solubility	Insoluble in the following materials: cold water.
Partition coefficient noctanol/water	Not available
Vapor density	Not available.
Viscosity	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	180℃

SECTION 10 Stability and Reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability	The product is stable.
Possibility of hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Excessive temperatures. At temperatures greater than 356F (180C), this product may become unstable and slowly auto-oxidize into Fe2O3 which generates additional heat. Under certain conditions this heat may be sufficient to cause combustible materials to ignite.
Incompatible materials	No specific data.
Hazardous decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

Information on the likely routes of exposure Dermal contact, Eye contact, Inhalation and Ingestion.

Potential accurate health effects

Eye contact	May cause mechanical irritation(abrasion).
Inhalation	No known significant effects or critical hazards
Skin contact	May cause mechanical irritation(abrasion).
Ingestion	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

Potential chronic health effects

Short term exposure

Potential immediate effects	Not available.

Long term exposure

Potential delayed effects	Not available.
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measures of toxicity: Information on toxicological effects

Acute effects May be harmful by inhalation, ingestion, or skin absorption. Cause eye and skin irritation.

ORAL Ld 50------ 5000 mg / kg (rat)
*EYE EFFECTS------ Non- Irritation to rabbit eyes
*EYE EFFECTS------ Non- Irritation to rabbit skin (24 hours)
*Based on results from a similar product

SECTION 12 Ecological information

Toxicity

Persistence and degradability There is no data available.
Bioaccumulation potential There is no data available.
Mobility in soil Soil/water partition coefficient(Koc): Not available.
Other adverse effects No known significant effects or critical hazards.

SECTION 13 Disposal considerations

WASTE MANAGEMENT When handling waste, consideration should be made to the safety precautions applying to handling of the product. Refer to Section 7.

DISPOSAL METHODS Material which cannot be re-used should be disposed of in accordance with federal, state and local environmental control regulations at an authorized site by an approved contractor. This product when discarded as sold is not an 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. (40CFR261.20-24)

WASTE CLASS Non Hazardous

SECTION 14 Transport Information

Transport Parameters	DOT Classification	IMDG	IATA
UN Number	-	-	-
UN Proper Shipping Name	-	-	-
Transport Hazard Class	-	-	-
Packing Group	-	-	-
Additional Information	Not regulated.	Not regulated.	Not regulated

SECTION 15 Regulatory Information

Status under SARA(311/312) Not applicable.
Status under SARA Tile III Section 302 None.
Extremely Hazardous Substances

Status under SARA Tile III Section 313 This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.TSCA:The ingredients of this product are on the TSCA Inventory.

Status under US EPA CERCLA None

Hazardous Substances(40 CFR 302) None

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Ingredient name	CAS Number	State Code	Concentration(%)
C.I.Pigment Yellow 42	20344-49-4		98-100%

Massachusetts Substances	MA-S
Massachusetts Extraordinary Hazardous Substances	MA-Extra HS
New Jersey Hazardous Substances	NJ-HS
Pennsylvania RTK Hazardous Substances	PA-RTK HS
Pennsylvania Special Hazardous Substances	PA-Special HS

Status under California Prop 65

Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level(NSRL) To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive(R) harm.

U.S.Toxic Substances Control Act Listed on the TSCA Inventory.

SECTION 16 Other information

Hazardous Material Information System:

Health	1
Flammability	0
Physical hazards	0

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.) :

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

Yipin' 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.

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.

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