



Safety Data Sheet

Section 1. Identification

Product identifier: Iron Oxide Yellow BM850

Chemical Class: **Synthetic iron oxide alpha-FeOOH**

Application: Colorants (pigments and dyestuffs), inorganic

Manufacturer/Supplier:

Chemik Co.,Ltd.

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Section 2. Hazards identification

HAZCOM Standard Status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), the SDS contains valuable information critical to the safe handling and proper use of the product. The 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) Precautionary statements: None known.

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

Ingredient name	%	CAS Number
Iron oxide yellow pigment	69min	51274-00-1

Chemical characterization: Synthetic iron oxide $\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O}$ (α - FeOOH),
C. I. Pigment YELLOW 42 EINECS No.: 257-098-5

Registration Number in REACH: 01-2119457554-33-0012

Substance/mixture: Substance

Section 4. First aid measure

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 symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Potential acute 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.

Over-exposure signs/symptoms

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: No specific data.

Potential chronic health effects

Long-term exposure to high concentrations of dust containing iron oxide can cause a benign condition termed "pulmonary siderosis." This condition is not associated with any physical impairment of lung function.

Notes to physician: Treat symptomatically. No specific treatment.

Protection of first-aiders: No special measures required.

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.

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

Hazardous thermal decomposition products: No specific data.

Special protective actions for fire-fighters: 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 personnel 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 designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

Reference to other sections:

See Section 1 for emergency contact information.

See Section 13 for waste disposal.

Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Handling:

Precautions for safe handling

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.

Storage:

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 techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection: Dust-protection mask.

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

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

Medical Surveillance: Not available.

Section 9. Physical and chemical properties

Physical state:	Solid. (powder)
Color:	Yellow
Odor:	Odorless
Odor threshold:	Not available.
PH:	5-8
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.
Density:	3.8 g/cm ³ (20°C(68°F))
Specific gravity (Relative density):	Not available.
Bulk density:	300 to 1000 kg/m ³
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°C

Section 10. Stability and reactivity

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

Chemical Stability: This product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

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 Ingestion.

Potential acute 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: No specific data.

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.

Information on toxicological effects

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure	Test
C.I.Pigment yellow 42	LD50 Oral	Rat-Male	>10000 mg/kg	-	-
C.I.Pigment yellow 42	LC50 Inhalation Dusts and mists	Rat	>195 g/m3	6 hours	-
	LC50 inhalation Dusts and mists	Rat	>195 g/m3	2 weeks	-

Irritation/Corrosion

Product/Ingredient name	Result	Species	Score	Exposure	Observation	Reversibility
C.I.Pigment yellow 42	Eyes-Draise	Rabbit	0	50mg	7 days	-
	Skin-Erythema/Eschar	Rabbit	0	24 hours 500mg	7 days	-

Conclusion/Summary

Skin: C.I.Pigment yellow 42:Non-irritating.

Eyes: C.I.Pigment yellow 42:Non-irritating.

Sensitization:

Product/Ingredient name	Route of exposure	Species	Result
C.I.Pigment yellow 42	Skin	Guinea pig	Not sensitizing.

Chronic toxicity:

Product/Ingredient name	Result	Species	Dose	Exposure
C.I.Pigment yellow 42	Sub-acute NOAEC inhalation Dusts and mists	Rat-Male	>195 g/m3	14 days:6 hours per day 5 days per week

Mutagenicity:

Product/Ingredient name	Test	Experiment	Result
C.I.Pigment yellow 42	OECD 476 IN VITRO MAMMALIAN CELL GENE MUTATION TEST	Experiment: In vitro Subject:BACTERIA METABOLIC ACTIVATION:WITH/WITHOUT S9 MIX Experiment: In vitro	Negative
	OECD 473 IN VITRO MAMMALIAN CHROMOSOMAL ABERRATION TEST	Subject:MAMMALIAN-ANIMAL CELL:SOMATIC METABOLIC ACTIVATION: WITH/WITHOUT Experiment: In vitro	Negative
		Subject:MAMMALIAN-ANIMAL CELL:SOMATIC METABOLIC ACTIVATION:WITH/WITHOUT S9 MIX	Negative

Carcinogenicity:

Product/Ingredient name	Result	Species	Dose	Exposure
C.I.Pigment yellow 42	Negative-Intraperitoneal-	Rat-Male, Female	600 mg/kg	914 days; 3 injection a 200 mg/kg in 8 weeks.

Product/Ingredient name	CAS#	IARC	NTP	OSHA
C.I.Pigment yellow 42	51274-00-1	Not classified	Not classified	Not classified

Section 12. Ecological information

Toxicity:

Product/Ingredient name	Test	Result	Species	Exposure
C.I.Pigment yellow 42	ISO 8192	Acute EC50>10000mg/l Fresh water	Bacteria-adapted and activated sludge micro-organism	3 hours
	OECD 202 Daphnia sp.Acute Immobilization Test	Acute EC50>100mg/l Fresh water	Daphnia-Daphnia magna	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC0>100000mg/l Fresh water	Fish-Danio rerio	96 hours

Conclusion/Summary: Not available.

Persistence and degradability Conclusion/Summary: Not applicable.

Bioaccumulative potential: Not available.

Mobility in soil soil water partition: Not available.

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environment controls laws.

RCRA classification: If discarded in its purchased form, this product would not be a hazardous waster either by listing or by characteristic. 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.(40 CFR 261.20-24)

Section 14. Transport information

Regulatory information	UN Number	Proper shipping name	Classes	Packing Group	Label	Additional information
DOT Classification	-	-	-	-		Not regulated.
IMDG Class	-	-	-	-		Not regulated.
IATA-DGR Class	-	-	-	-		Not regulated.

Section 15. Regulatory information

SARA311/312: None.

SARA title III Section 302 Extremely Hazardous Substances: None.

SARA Title III Section 313 Toxic Chemicals: None.

US EPA CERCLA 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 requirement. For details on your regulator requirements you should contact the appropriate agency in your state.

Ingredient Name: C.I.Pigment yellow 42

CAS Number: 51274-00-1

California Prop.65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Potential exposure to some or all of the California Prop 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL)

TSCA inventory

TSCA: On TSCA Inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements

Section 16. Other information**Hazardous Material Information System:**

Health: 0, Flammability: 0, Physical hazards: 0

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

National Fire Protection Association (U.S.A.)

Health: 0, Flammability: 0, Instability/Reactivity: 0 Special:

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

Water hazard class:

Substance non-hazardous to water.

(WGK 1=low hazardous to water WGK 2=hazardous to water WGK 3=severely hazardous to water)

Revision Date: 01-Jan-2017

Revision Summary:

Reason for revision: Not applicable

Department issuing this data sheet: Product safety department

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet