

MATERIAL SAFETY DATA SHEET

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I. Product Identification

Product Code	1043	Product Name	Hyperma Orange GR
Color Index Name	Pigment Orange 43	Color Index Number	71105
Chemical Class	Perinone	M.W. :	412.41

Use Description :

Synthetic organic pigments are found in most product that are colored, such as printing inks, paints, plastics, cosmetics, contact lenses, medical devices, crayons, textile fibers, and numerous other applications.

Manufacturer :

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Emergency Telephone Number :

Transportation : 86 21 5289 7245
Product Safety : 86 21 5289 7246

II. Composition/Information on Ingredients

Pigment Orange 43 C.A.S. : 42612-21-5

This product is not considered to be a hazardous nor dangerous substance as defined under EEC's Dangerous Substances Directives 67/548/EEC & 88/379/EEC & OSHA's Hazard Communication Standard (29 CFR 1910.1200).

III. Hazards Identification

Emergency Overview

When invoiced in a fire or exposed to high temperatures for an extended period time, organic pigments may smolder or burn evolving noxious fumes which can include oxides of nitrogen and carbon, or other toxic compounds.

IV. First and Measures

EYE CONTACT

Flush eyes thoroughly with large amounts of water for at least fifteen minutes. Get medical attention.

SKIN CONTACT

Wash skin with soap and water. Remove severely contaminated clothing and clean before reuse. Seek medical attention in the unlikely event that irritation occurs.

INHALATION

Remove to fresh air. Get medical attention if breathing is difficult.

INGESTION

Do not give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention.

V. Fire Fighting Measures

Nonflammable organic pigment product.

Extinguishing Media

Carbon dioxide, dry chemical or foam recommended. Apply water spray to cool exposed closed containers.

Special Fire Fighting Procedures

Self-contained breathing apparatus (SCBA) & full protective equipment recommended.

Unusual Fire & Explosion Hazards

Fire or excessive heat may produce hazardous decomposition products.

General Hazard

Improper handling of any finely divided organic pigment powder may lead to dust cloud formation which may be an explosion hazard.

Flammability Data

Flash Point	Non-flammable material
Flammability Limits	No data
Autoignition Temperature	No data
Dust Cloud Ignition Temperature	No data

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V. Fire Fighting Measures

Dust Layer Ignition Temperature	No data
<u>NFPA RATINGS</u>	<u>HMIS RATINGS</u>
Health 1	Health 1
Flammability 1	Flammability 1
Reactivity 0	Reactivity 0

VI. Accidental Release Measures

Small Spill

For dry powder spills, inert material such as sand may be added to control dusting prior to cleanup. Industrial grade vacuum sweepers are also recommended. Place spilled material into appropriate waste containers for disposal.

Large Spill

Contain spilled material immediately with an inert substance such as sand or earth. Use plastic or aluminum shovel to transfer diluted waste material into appropriate containers for disposal. Airborne organic pigment dust may be an explosion hazard. Secure possible sources of ignition and avoid dusting.

VII. Handling and Storage

Handling

Avoid employee exposure through the use of appropriate engineering controls good industrial hygiene practices

Storage

Store in a moderately cool, dry, well-ventilated area away from direct sources of Heat. Empty containers may contain product residues and should be handled appropriately. Position containers so that any labeling information is visible.

VIII. Exposure Controls/Personal Protection

Engineering Controls

The use of local exhaust ventilation is recommended.

Personal Protection

NIOSH approved dust respirators are recommended when handling in areas of pigment dusting. Safety glasses are also recommended. Impervious clothing should be worn when gross contact is likely, such as when cleaning up spills of large amounts

Exposure Limits

There are no ACGIH TLV's established for this product.
The OSHA PEL for nuisance dust is 15 mg/m³ (total dust), and 5 mg/m³ (respirable dust) recommended. The recommended ACGIH TLV for nuisance dust is 10 mg/m³

IX. Physical and Chemical Properties

Appearance	Finely divided dry powder	Percent Volatile	Negligible
Color	Reddish Orange	Vapor Pressure	Not applicable
Melting Point	320-350°C	Molecular Formula	C ₂₆ H ₁₂ N ₄ O ₂
Specific Gravity	1.62	Volatile Organic Compounds	None
Solubility	Insoluble	(VOC's)	

X. Stability and Reactivity

General:

This product is a stable compound and hazardous polymerization will not occur.

Incompatibility:

Avoid strong oxidizing agents such as peroxides, chlorates, perchlorates, nitrates, and permanganates. Oxidizing materials may vigorously evolve oxygen in large amounts.

Hazardous Decomposition Products:

When involved in a fire, burning organic pigments may evolve noxious gases which are toxic. These compounds may include carbon monoxide, carbon dioxide, nitrous oxides, or hydrogen chlorides, depending on the pigment type.

XI. Toxicological Information

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XI. Toxicological Information

Based upon industry-wide experience over many years of manufacturing and published toxicological studies, organic pigments in general are considered to be practically non-toxic. This low order of toxicity is probably due to the fact that pigments are somewhat inert and insoluble substances.

There are no established TLV's or PEL's for this product.

Acute (Short-Term) Toxicity

This product has a reported acute oral LD₅₀ value of 5000 mg/kg in rats.

Chronic (Long-Term) Toxicity

No known published data available.

Mutagenicity

No known published data available.

XII. Ecological Information

This product has not been evaluated for its ecotoxicity. However, the bio-degradation of organic colorants under aerobic conditions is expected to be poor and there is no evidence to suggest they create any significant ecological problems when released into the environment. Since organic pigments are generally insoluble compounds, they believed to have minimal bioaccumulation and bio-availability characteristics.

XIII. Disposal Considerations

General

This product must be disposed of in according with all applicable international, federal, state and local regulations.

Waste Management

Incineration or landfilling are recommended disposal techniques. Contact the state or local environmental agency for specific rules.

This product is not identified as a RCRA hazardous waste under 40 CFR 261, and is not regulated under CERCLA (Superfund).

XIV. Transportation Information

D.O.T. Shipping Name(49 CFR 172.101-102)	Not regulated
D.O.T. Hazard Class (49 CFR 172.101-102)	None
D.O.T. Label	None
UN/NA NUMBER	Not regulated
IMDG/IAGO CLASSIFICATION	Not regulated
IATA CLASSIFICATION	Not regulated

XV. Regulatory Information

OSHA Hazard Communication Standard Status

This product is not considered to be a hazardous substance under OSHA's Federal Hazard Communication Standard 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) Status

This product is in full compliance with Section 6(e) of TSCA, 15 U.S.C., 2605(e) regarding inadvertently generated polychlorinated biphenyls (PCB's).

CERCLA Reportable Quantity 9RQ)

None (Not regulated)

SARA Title III

Section 302 (EHS)	None	Section 311/312 (acute)	None
Section 313	None		

RCRA

Not regulated as a hazardous waste under RCRA

EINECS (European Economic Community)

All components of this product are on the EINECS list. EINECS No. : 239-898-6

California's Proposition 65 Regulated Substances

- 1). PCB's : Concentration may vary from non-detectable up to 25ppm
- 2). 3,3'-DCB : Concentration may vary from non-detectable up to 50ppm for normal production lots.

CONEG Status

This product is certified to be in full compliance with CONEG Model Legislation for packaging and packaging ink components.

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IVI. Other Information

For more information contact Product Safety at

GGINK International Limited
Attn : Mr Wang Shi Chang

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