

SAFETY DATA SHEET

Version 1.0

03.26.2019

SECTION 1: Identification of the substance/mixture and of the Company/ undertaking

Product identifier

Product name: MAHA IOX OXIDE GREEN 4590

Details of the supplier of the safety data sheet

Maha Chemicals (Asia) Pte Ltd
51 Tuas West Drive
Singapore 638415

Emergency telephone number

+65 68631808

SECTION 2: Hazards identification

Classification of the substance or mixture:

GHS product classification: Not classified as hazardous under any GHS hazard class.

Label elements:

GHS product labeling:

Hazard pictogram(s): Not Applicable

Signal word: Not Applicable

Hazard statements: Not Applicable

Precautionary statements: Not Applicable

Notes: No Additional Information

Other hazards: No Additional Information

SAFETY DATA SHEET

Version 1.0

03.26.2019

SECTION 3: Composition/Information on Ingredients

Substance: Content of (CuPc): $\gg 60\%$, Content of (Fe(OH)O): $\leq 40\%$

Chemical name:

Phthiocyanine blue BGS(CuPc), EC Number:205-685-1, CAS Number:147-14-8

Iron oxide Yellow (Fe(OH)O), EC Number:257-098-5, CAS Number:51274-00-1

C.I.: Pigment Blue 15:3, Pigment Yellow 42

Formula: β -CuPc(C₃₂H₁₆N₈Cu), (Fe(OH)O)

SECTION 4: First aid measure

Inhalation: Remove from dusty area to fresh air area. If not breathing gives artificial respiration. If breathing is difficult, give oxygen and call a physician.

Skin Contact: Wash thoroughly with soap and water

Eye Contact: Flush with water for 15 minutes, lifting lids periodically. Seek medical attention if irritation persists.

Swallowed: Rinse mouth with water. Give water to drink. Do not induce vomiting. If symptoms develop, seek medical attention.

SAFETY DATA SHEET

Version 1.0

03.26.2019

SECTION 5 : Fire fighting measure

Flammability: Non-flammable inorganic pigment product.

Extinguishing media: Carbon dioxide, foam, dry chemical, water.

Special protective equipment: Self contained breathing apparatus, plus full protective equipment recommended.

SECTION 6: Accidental release measures

Emergency procedures: Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Evacuate all unnecessary personnel. Increase ventilation. Stop leak if safe to do so. Do NOT let product reach drains of waterways. If product does enter a waterway, inform the Environmental Protection Authority or your local waste Management.

Methods and materials for containment and clean up:

Avoid generating dust. Contain and sweep up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and hold for safe disposal.

SECTION 7: Handling and storage

HANDLING: Steps To be taken if Materials Is Spilled or Released: vacuum or scoop material into an appropriately marked container for reclamation or disposal. Avoid excessive generation of dust. If dust is generated, use appropriate respiratory protection. Avoid breathing dust, and skin and eye contact. Wash thoroughly after handling.

STORE: Store in a cool, dry, well-ventilated area. Store away from other chemical products.

SAFETY DATA SHEET

Version 1.0

03.26.2019

SECTION 8: Exposure controls/personal protection

Exposure limit values: TWA 10mg/m³ (Iron Oxide fume as Fe)

Biological limit values: No information available on biological limit values for this product.

Engineering Controls: Keep employee exposures as low as possible. Keep container enclosed when not in use.

Personal protection: Respiratory Protection: Dust respirator.

Protective Gloves: Yes

Eye Protection: Safety glasses

Ventilation: Do not use in small-enclosed area.

Hygienic Work Practices: Wash hands with soap and water
after contact.

Environmental exposure controls:

Secure source of ignition and avoid raising dust.

SECTION 9: Physical and chemical properties

General information:

Appearance: Green powder.

Odour: Odourless

Important health, safety and environmental information

pH Value(10g/l water): 3.5-8.0

Vapour pressure: N/A

Boiling Point: N/A

Relative density: 4.0-5.0

Flash Point: 300F

Viscosity: N/A

Explosive properties: Not explosive.

Water solubility: No solubility.

Oxidizing properties: No oxidizing properties.

SAFETY DATA SHEET

Version 1.0

03.26.2019

SECTION 10: Stability and reactivity

Chemical stability: Product is stable under normal of condition of use, storage, and temperature.

Conditions to avoid: Avoid excessive heat, static discharge, generating, moisture and high temperatures.

Incompatible materials: Incompatible with strong oxidizing agents, carbon monoxide, performic acid and source of ignition.

Hazardous decomposition products: No decomposition at proper storage and application conditions.

Hazardous reaction: No hazardous reactions.

SECTION 11: Toxicological information

Toxicity data: LD50(Oral, Rat): > 2000mg/kg. Not considered a carcinogenic substance

Health effects of acute overexposure:

Swallowed: Ingestion of large amounts may cause gastric disturbances, nausea of vomiting.

Eye: May cause mild eye discomfort or physical irritation.

Skin: Skin irritation is not expected. Avoid repeated or prolonged contact with skin.

Inhaled: Inhalation of dust may cause some irritation to the nose, throat and respiratory tract.

SAFETY DATA SHEET

Version 1.0

03.26.2019

SECTION 12: Ecological information

Ecological toxicity:

Persistence and degradability: Not biodegradable as product is insoluble in water.

Mobility: Non volatile, insoluble in water, Floats on water.

Environmental Fate(Exposure): Avoid contaminating waterways, drains and sewers.

Bioaccumulative Potential: No information available on bioaccumulation for this product.

SECTION 13: Disposal considerations

Disposal: Dispose of in according with all local, state and federal Regulations. All empty packaging should be disposed of in accordance with local, state and Federal Regulation or recycled/reconditioned at an approved facility.

Special precautions for Land Fill or Incineration: Contact a specialist disposal company or the local waste regulator for advice.

SECTION 14: Transport information

Not classified by Annex 1 of Directive 67/548/EEC. Not classified by IMDG/IATA.

Not defined as dangerous goods for transport by road, by railway, by sea.

SAFETY DATA SHEET

Version 1.0

03.26.2019

SECTION 15: Regulatory information

Safety, health and environment regulations/legislation specific for the product:

Korean regulations:

Korea Industrial Safety and Health Act: Iron compounds (Metals). Korea Toxic Chemicals Classification Act: No subject chemicals.

Korea Safety Control of Dangerous Substances Act: No subject chemicals.

Korea Waste Management Act: Waste disposal methods must comply with local and national laws.

Other regulations: No Additional Information

Regulation Status

Australian Inventory of Chemical Substances (AICS): Y

Canadian Non-Domestic Substances List (NDSL): Y

China Inventory of Existing Chemical Substances (IECSC): Y

Europe REACH (EC) 1907/2006: Y

Korean Existing and Evaluated Chemical Substances (KECL): Y

New Zealand Inventory of Chemicals (NZIOC): Y

U.S. Toxic Substances Control Act (TSCA): Y

SAFETY DATA SHEET

Version 1.0

03.26.2019

SECTION 16: Other information

Further information

SDS Prepared by:

Maha Chemicals (Asia) Pte Ltd

Prepared on: 26th Mar, 2019

DISCLAIMER OF LIABILITY: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.