

SAFETY DATA SHEET

Version 1.0

20.11.2017

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

Product identifier

Trade name: MAHA CHORME OXIDE GREEN SC 506

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

This product is not listed as a dangerous substance in appendix 1 of the 25th amendment 98/98/CE of directive 67/548/CE. No Specific hazards are encountered in normal use. No labeling is required in accordance with EEC directives. When handling, observe general precautions for chemicals substances and avoid the formation of dust.

SECTION 3: Composition/Information on Ingredients

Synonyms	Chromium Oxide Green
Composition	Greater than 99% Cr ₂ O ₃
CAS. No.	1308-38-9
EINESC No.	215-160-9

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SECTION 4: First aid measure

Inhalation: Possibility of respiratory and throat irritation. Move away from contaminated area into the fresh air. If symptoms persist, seek medical advice

Skin contact: Irrigate thoroughly with cold water. Remove contaminated clothing. If symptoms persist, seek medical advice.

Eye contact: Flush eyes with plenty of water thoroughly holding eyelids apart to ensure flushing of entire eye surface. If symptoms persist, seek medical attention.

Ingestion: Drink plenty of water. Attempt to make subject vomit, Seek medical attention.

SECTION 5 : Fire fighting measure

Chrome oxide pigments are non-combustible and there is no evidence of the fire risk. In case surrounding fire, water, dry chemical, carbon dioxide and other extinguisher can be used.

SECTION 6: Accidental release measures

If necessary, wear a dust mast.

Do not allow the product to enter drains or waterways.

Collect spilled product in a suitable labeled container avoiding formation of dust.

SECTION 7: Handling and storage

Handling: When handling this product, avoid exposure and minimize inhalation, ingestion, eye or skin contact. It is advisable to provide the work area with adequate local exhaust ventilation where dust may be generated. It is advisable to use personal

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protective equipment. Wash hand thoroughly after handling. If possible, take a shower at the end of work shift.

Storage: It is recommended that the material is stored in cool, dry, closed containers in a place protected from rain and bad weather conditions.

SECTION 8: Exposure controls/personal protection

- a) Applicable exposure levels are:
TLV-TWA 0.5mg/m³ as Cr(ACGIH)
- b) Personal Protective Equipment:
Respiratory protection: Use dust mask if ventilation is inadequate
Skin: Use normal work wear resistant to dust
Closed at wrist and ankles and fastened shoes.
Eyes: Use goggles.
Hands: Wear rubber or PVC Gloves.
The product can be oxidised in a small part to hexavalent chrome if used at high temperatures in oxygen containing atmospheres. Hexavalent chrome is identified as harmful to health. Ensure that worker exposure is below the relevant limits. Exposure limits applicable for hexavalent chrome.
ACGIH TLV 0.01mg/m³ as insoluble Cr(VI)
0.05 mg/m³ as soluble Cr(VI)
OSHA PEL: 0.1mg/ m³ as Cr₂O₃ TWA
NIOSH REL: 0.025 mg/ m³ TWA

SECTION 9: Physical and chemical properties

Formular: Cr₂O₃
Molecular weight: 152
Appearance: Fine powder
Colour: Green
Odour: No distinctive odour
pH(5% aqueous solution, room temperature)5~7
Melting point: about 2400 °C
Boiling point: 4000 °C
Lgnition point: N/A
Autoignition: None

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Flammability: Non-flammable

Explosive limits: N/A

Vapour pressure: N/A

Density: 5.21 g/cm³

Bulk density: 0.8-1.1 g/cm³

Solubility: Insoluble in water and inorganic solvents, very slightly soluble in acidic solutions.

SECTION 10: Stability and reactivity

Stability: This product is stable

Conditions to avoid: avoid conditions that encourage dust formation

Hazardous decomposition products: This product may be oxidized in small amounts to Hexavalent chromium when it is used at elevated temperatures in an oxygen-containing atmosphere.

SECTION 11: Toxicological information

Acute toxicity: LD50/oral/rat: > 5000mg/kg

Skin contact: contact with healthy skin does not cause irritation. In susceptible people sensitisation is possible.

Eye contact: Exposure will cause moderate irritation due to mechanical

Chrome (III) Oxide is not considered cancerogenic(IARC 1990,IPCS 1988)

SECTION 12: Ecological information

Product is inert and insoluble. For discharges to water and atmosphere refer to national and local regulations.

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SECTION 13: Disposal considerations

Product and packaging should be disposed of as indicated in national and local regulations.

SECTION 14: Transport information

There is no specific transportation precautions required. (Product is not subject to ADR.) It fits the sea transportation regulation.

SECTION 15: Regulatory information

This product is not listed as a dangerous substance in appendix 1 of the 25th amendment 98/98/CE of directive 67/548/CE. No special labeling is required. This material safety data sheet has been compiled according to directive 91/155/CE,

SECTION 16: Other information

Further information

SDS Prepared by:

Maha Chemicals (Asia) Pte Ltd

Prepared on: 20 November 2017

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