

Safety Data Sheet

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product Name: Yellow Iron Oxide 42.

Synonyms: Waterbased ink

1.2 Use of the substance/preparation: water based ink for printing on corrugated board, paper and paper sacks.

1.3 Company/ undertaking identification:

Meteors Chemicals Co Ltd.

3a Abdullah II Bin Al- Hussein Industrial Estate

Sahab

Jordan

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2. Hazards identification

Not classified as hazardous preparation under Directive 67/548/EEC and/or Directive 1999/45/EC.

3. Composition/information on ingredients

Pigment concentrate Yellow Iron Oxide 42

CAS number	Components	%
7732-18-5	Water	35-50
141-43-5	Amine salt of modified acrylic copolymer, in water	5-15
51274-00-1	Pigment powder – Yellow Iron Oxide 42	25-45

4. First-aid measures

4.1 After inhalation: Remove person to ventilated fresh air. With respiratory problems consult a doctor/medical service.

4.2 After skin contact: Rinse with water. Consult a physician if irritation occurs.

4.3 After eye contact: Immediately flush with room temperature, low pressure and clean water for at least 15 minutes. Seek medical attention if eye irritation occurs.

4.4 After ingestion: Rinse mouth with water. Never induce vomiting. Seek medical attention if you feel unwell.

5. Fire-fighting measures

5.1 Extinguishing media: Water spray, Polyvalent foam, BC powder or carbon dioxide.

5.2 Unsuitable extinguishing media: No data available.

5.3 Special exposure hazards: Material presenting a fire hazard. Upon combustion CO and CO₂ are formed.

5.4 Instructions: No specific firefighting instructions required.

5.5 Special protective equipment for fire fighters: Heat/fire exposure: self-contained breathing apparatus

6. Accidental release measures

6.1 Personal precautions: Remove the person of the leeward. Ventilate sufficiently during clean-up in case it happens inside a house. Wear protective clothing, gloves and safety goggles. Wash thoroughly with soap and water after clean-up.

6.2 Methods for cleaning up or taking up: If a spill occurs, use sponges to wipe-up ink. Then rinse area with damp cloth. Place waste in closed container for disposal. Do not dispose of waste to sewer.

7. Handling and storage

7.1 Handling: Use proper ventilation and avoid fire in work place. Put protection wear that has electrical conductivity in case of work. Keep out of reach of children. Do not drink ink. Do not dismantle cartridge. Make sure cartridge is dry before insertion into printer housing.

7.2 Storage: Keep cartridge closed Keep cartridge out of direct sunlight. Meet legal requirements; do not store cartridges with oxidizing agents or explosives.

Storage temperature: 10-45°C

Storage life: 730 days

7.3 Specific use: No specified.

8. Exposure controls/personal protection

8.1 exposure limit values: No data available.

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Engineering controls: No special measures required.

Personal protective equipment:

Respiratory protection: Not required under suitable use as setting the cartridge on the printer; however, self-contained breathing apparatus or organic canister mask is recommended in air > exposure limit.

Hand protection: Not required under suitable use as setting the cartridge on the printer; however, wearing gloves are recommended when emptying the waste bottle.

Eye protection: Not required under suitable use as setting the cartridge on the printer; however, wearing safety goggles are recommended when emptying the waste bottle.

Skin protection: Not required under suitable use as setting the cartridge on the printer; however, wearing protective clothing is recommended.

8.2.2 Environmental exposure control: See 6.2 and 13

9. Physical and chemical properties

9.1 General Information:

Appearance (at 20°C): Liquid

Odor: amine-like

Color: YELLOW

9.2 Important health, safety and environmental information:

PH value at 20°C: 8.5 – 9.5

Boiling point / range: no data available

Flash point: Not detected until 95°C/203°F (closed cup, ASTM D3278)

Explosive properties: no data available

Oxidizing properties: no data available

Vapour pressure (at 20°C): no data available

Vapour pressure (at 50°C): no data available

Relative density: About 1.0 at 20°C

Water solubility: Complete

Solubility in other: No data available

Relative vapour density: No data available

Viscosity: No data available

Partition coefficient n-octanol/water: No data available

Evaporation rate ratio to butyl acetate: No data available

Ratio to ether: No data available

9.3 Other information: Melting point/range: no data available

Auto-ignition point: no data available

Saturation concentration: no data available

Specific conductivity: no data available

10. Stability and reactivity

10.1 Conditions to avoid: high and freezing temperature

10.2 Materials to avoid: oxidizes and explosives

10.3 Hazardous decomposition products: none

10.4 Stability: stable under normal temperature

10.5 Hazardous polymerization: no data available

11. Toxicological information

11.1 Acute toxicity: LD50 rat (oral): 5,000 mg/kg

11.2 Chronic toxicity: no data available

Mutagen city: Negative by Ames Test *

Carcinogenicity: IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens as group 3. This product contains no substances listed in IARC Monographs (1,2A and 2B)

Teratogenicity: no data available

11.3 Routes of exposure: Eye, skin, inhalation, and ingestion

11.4 Acute effects:

* Overexposure of eye surface may be mildly irritating

* Overexposure of skin may cause irritation and in some cases swelling and redness

* Intentional inhalation overexposure to ink vapours may result in respiratory tract irritation and anaesthesia

* Intentional or accidental oral ingestion may cause an upset stomach

11.5 Chronic effects: None known.

12. Ecological information

12.1 Exotoxicity: no data available

12.2 Mobility: no data available

12.3 Persistence and degradability: no data available

12.4 Bioaccumulative potential: no data available

12.5 Results of PBT assessment: no data available

12.6 Other adverse effects: no data available.

13. Disposal considerations

Disposal should be in accordance with federal, state and local requirements. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

14. Transport information

Not restricted for any mode of international transport

15. Regulatory information

15.1 EU legislation: Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC.

16. Other information

This "Material Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time. Meteors Chemicals Co Ltd does not warrant the completeness or accuracy of the information contained herein.