



METEORS CHEMICAL COMPANY LTD.

Amman, Jordan www.astrainks.com

Materials Safety Data Sheet - (MSDS)

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

1.1 Identification of the substance or preparation:

Product Name:- PIGMENTS CONCENTRATES

-  Green.
-  Yellow.
-  Blue.
-  Orange.
-  Warm Red.
-  Rubin Red.
-  Red/Violet.
-  Rhodamine Red.
-  White.
-  Black.

Synonyms:-Water based pigment ink.

1.2 Use of the substance/preparation:-waterbased pigment ink for printing on corrugated board & paper sacks.

1.3 Company/ undertaking identification:-

Meteors Chemicals Co ltd.

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2.Hazards identification.

Not classified as hazardous preparation under EC (EU REGULATION) № 1907/2006

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, evaluation, authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC



3. Composition/information on ingredients.

1. Blue concentrate.

CAS number	Components	%
7732-18-5	Water	40-48
	Monoetanolamine salt of modified styrene acrylic polymers	9-12
147-14-8	Pigment Blue 15:3	40-45

2. Green concentrate.

CAS number	Components	%
7732-18-5	Water	40-48
	Monoetanolamine salt of modified styrene acrylic polymers	9-12
1328-53-6	Pigment Green 7	40-45

3. Red concentrate.

CAS number	Components	%
7732-18-5	Water	40-48
	Monoetanolamine salt of modified styrene acrylic polymers	10-12
6410-30-6	Pigment Red 8	40-45

4. Warm red concentrate.

CAS number	Components	%
7732-18-5	Water	40-48
	Monoetanolamine salt of modified styrene acrylic polymers	10-12
5160-02-1	Pigment red 53:1	40-45

5. Orange concentrate.

CAS number	Components	%
7732-18-5	Water	45-55
	Monoetanolamine salt of modified styrene acrylic polymers	10-12
3520-72-7	Pigment Orange 13	35-40



6. White concentrate.

CAS number	Components	%
7732-18-5	Water	30-45
	Monoetanolamine salt of modified styrene acrylic polymers	10-12
98084-96-9	Pigment Titanium White PW6	50-60

7. Yellow concentrate.

CAS number	Components	%
7732-18-5	Water	40-48
	Monoetanolamine salt of modified styrene acrylic polymers	10-12
5102-83-0	Pigment Yellow 13	40-45

8. Rubin red concentrate.

CAS number	Components	%
7732-18-5	Water	45-55
	Monoetanolamine salt of modified styrene acrylic polymers	10-12
5281-04-09	Pigment Red 57:1	30-40

9. Violet concentrate.

CAS number	Components	%
7732-18-5	Water	60-65
	Monoetanolamine salt of modified styrene acrylic polymers	15-20
3204-17-00	Pigment Violet 27	15-25

10. Rhodamine concentrate.

CAS number	Components	%
7732-18-5	Water	50-60
	Monoetanolamine salt of modified styrene acrylic polymers	10-12
12237-63-7	Pigment Red 169	30-40

11. Black concentrate.

CAS number	Components	%
7732-18-5	Water	50-60
	Monoetanolamine salt of modified styrene acrylic polymers	10-14
1333-86-4	Pigment Black 7	30-40



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(light).
- Color :- Variable in color.

9.2 Important health, safety and environmental information :-

- pH value at 20°C:- 8.0 – 10.5.
- boiling point / range:- 100-105 C OR 212-212 F.
- Flash point:- Not detected until 95°C/203°F (closed cup, ASTM D3278).
- Explosive properties:- none.
- Oxidizing properties:- none.
- Vapor pressure (at 20°C) :- 17,5 mm Hg.
- Vapor pressure (at 50°C) :- 92,3 mm Hg.
- Relative density:- About 1.0 at 20°C.
- Water solubility:- Complete.
- Solubility in other:- Complete in solvents.
- Relative vapor density:-Reversible.
- Viscosity:-30-55 sec in #Din cup 4.
- Partition coefficient n-octane/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 : 300-330 F or 149-160 C.

- Auto-ignition point :- none.
- Saturation concentration:- not identify.
- Specific conductivity:- not identify.

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.

10.4Stability:- 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.

- Mutagenicity:- 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 vapors may result in respiratory tract irritation and anesthesia.
- Intentional or accidental oral ingestion may cause an upset stomach.

11.5 Chronic effects:- None known.

12. Ecological information.

12.1 Exotoxicity:- possible irritation on repeated contact with skin and inhalation.

12.2 Mobility:- with flow water .

12.3 Persistence and degradability:- decreased or increased water.

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.

Q.C.Division

March/2017

Approved by:-**Meteors Chemical Co.LTD.**