Material Safety Data Sheet.

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

1.1 Identification of the substance / preparation.

Fern Green

1.2 Intended use.

Chemically colouring cured concrete.

1.3 Company details

Color-Pave Ltd
Unit 4, Leachfield Industrial Estate,
Green Lane West, Garstang,
Preston, Lancashire PR3 1PR
Tel; 01772 701474
E-mail; sales@color-pave.co.uk
Website: www.color-pave.co.uk

2. Composition / Information on ingredients.

2.1 Main components

Product		**CAS Number**
Hydrochloric Acid	< 10%	7647-01-1
Sodium Dichromate	< 5%	10588-01-9
Cupric Chloride	< 30%	1344-67-8
Water	< 65%	

3. Hazards identification.

3.1 Prolonged exposure may result in irritation.

4. First-aid measures.

4.1 **Eye contact**
Wash eyes immediately with clean water for at least 15 minutes and seek medical advice.

4.2 **Skin Contact**
Drench the affected area thoroughly with water. Remove contaminated clothing and wash before reuse. If irritation, pain or other skin trouble occurs, seek medical advice.

4.3 **Ingestion**
Wash out mouth with water and give patient plenty of water to drink.

4.4 **Inhalation**
Remove from exposure, rest and keep warm. If recovery is not rapid, seek medical help.

5. Fire fighting measures.

5.1 **Suitable Extinguishers**
Use extinguisher suitable to cause of fire.

5.2 **Hazardous Combustion Products**
Hydrogen Chloride.

5.3 **Special Equipment for Fire Fighting**
Self contained breathing apparatus and full protective clothing.

6. Accidental release measures.

6.1 **Personal precautions**
Wear relevant PPE.

6.2 **Cleaning up**
Bund spill area, dilute with water and neutralize with lime slurry or sodium carbonate. Flush away with plenty of water.

6.3 **Environmental Precautions**
Do not allow undiluted material to enter drains, sewers or water courses

7. Handling and storage.

7.1 **Handling**
Ensure good ventilation. Avoid contact with skin and eyes. Do not breathe fumes.

7.2 **Storage**
Must be stored in containers made of rubber lined mild steel, PVC or high density polyethylene. Keep away from products listed in section 10.

8. Exposure controls / personal protection.

8.1 **Exposure limits**
5 ppm (7mg/m^3)

8.2 **Respiratory protection**
Type approved RPE for acidic vapours.

8.3 **Eye protection**
Safety goggles

8.4 **Skin protection**
PVC or rubber gloves, rubber boots and PVC overalls.

9. Physical and chemical properties.

Appearance	Light Green liquid
Odour	Pungent
PH	< 1
Viscosity	N/A
Freezing point	0^{o}C approx
Boiling point	100^{o}C approx
Melting point	N/A
Flash point	N/A
Explosive properties	N/A
Density	< 1.05 @ 15.5^{o}C
Solubility in water	Completely miscible

10. Stability and reactivity.

10.1 **Known hazardous reactions**
Attacks most common metals liberating hydrogen, which can form explosive mixtures with air.

10.2 **Materials to avoid**
Alkalis, concentrated sulphuric acid, oxidising agents, ammonia, amines.

10.3 **Hazardous decomposition products**
Hydrogen chloride

11. Toxicological information.

11.1 **Short term effects**
Inhalation of large quantities of mist or vapour may cause irritation. Irritating to eyes, skin and mucous membranes. Repeated exposure may cause ulceration of septum and gums.

11.2 **LD50**
Oral Rat – 984 mg/kg

12. Ecological information.

12.1 **Mobility**
Soluble in water, predicted to have high mobility in soil.

12.2 **Degradability**
Neutralised slowly by natural alkalinity

12.3 **Bio accumulative potential**
Material does not bio accumulate

12.4 **Aquatic toxicity**
Fatal to fish and other aquatic life due to low PH

13. Disposal considerations.

Dispose via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

14. Transport information.

No special requirements for transportation by road, rail, sea or air.

15. Regulatory information.

Classification – Irritant

15.1 **Risk phrases**
No risk phrases stipulated

16. Other information

16.1 If the material is redistributed for sale, details of its hazards and recommended methods for safe handling should be available to all sites and / or customers.

16.2 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.