

SAFETY DATA SHEET

Date: April 2001

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1. Identification of the substance/preparation and company

1.1 Product/trade name: **Crack Detection Dye Penetrant Compressed Air Pressure Spray**
(For stage 2 of Crack Detection Kit)

1.2 Name, address and telephone number of manufacturer.

Manufacturer	Stevens Industrial Services Ltd	Importer: Sureweld International Ltd
	Unit 4, Littleburn Ind Est	Fonthill
	Langley Moor	Lucan
	Durham DH7 8JE, England	County Dublin
	Tel : (0191) 378 1786	Tel 01 626 6242
	Fax: (0191) 378 2190	Fax 01 626 2533

1.3 Emergency Telephone Number: Tel (0191) 378 1786

2. Composition and information on ingredients

2.1 Chemical nature: Substance: Preparation: X
Definition: Water Soluble metal dye penetrating fluid with wetting agents and Vegetable oil based binder.

2.2 Dangerous substances: None.

3. Hazards Identification

3.1 Category of Danger: Not Applicable.
Classification: None required.
Environment: See section 12.

4. First Aid Measures

4.1 General Advice: No special First Aid measures necessary.
4.2 Skin contact: Remove affected clothing and wash affected skin with soap and water.
4.3 Eye contact: Wash out immediately with copious amounts of water.
4.4 Ingestion: Do not induce vomiting and consult a Doctor.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Not required. Product is Non-Flammable.
5.2 Do not use for Safety reasons: None specified.
5.3 Exposure hazards arising from the substance or preparation itself, or combustion products or resulting gases: None.
5.4 Special protective equipment For Fire Fighters: None.

6. Accidental Release Measures

6.1 Personal Precautions: None, or see Item 4.
6.2 Environmental Precautions: As with all products, prevent leakage into Sewers, ground water and soil by use of sand or other suitably inert material. If leakage occurs, contact and notify your local Authority or Water Authority as appropriate. (See also Section 12.)

7. Handling and Storage

- 7.1 Handling: No special handling measures necessary. Do not pierce pressurized container even when empty. Avoid exposing the container to direct sunlight or heat sources with a naked flame. Keep container capped until ready for use to avoid accidental release of the contents. Do not smoke whilst using the product.
- 7.2 Advice for Fire and Explosion Protection:
Avoid exposing the container and/or packaging to temperatures in excess of 50°C.
- 7.3 Storage:
Conditions of Storage and Packaging: Keep packaging closed and away from Frost. Avoid exposing packaging to direct sunlight or heat sources. Avoid exposure to extremes of temperature between 5°C and 50°C. No special instructions necessary regarding storage with other products.
Container and contents are Non-Flammable and Non-Toxic.

8. Exposure Controls and Personal Protection

- 8.1 Technical Advice: None. Product is used alone and not mixed with other products.
- 8.2 Exposure Limits: See Section 11.
- 8.3 Personal Protection
General protection and Hygiene Measures:
Avoid skin contact wherever possible. Wear protective Gloves to prevent or minimise skin contact (due to difficulty in removal from hands and skin.) Cover unprotected skin to avoid or minimise contact (due to difficulty in removal from hands and skin.) Wear safety goggles to prevent eye contact. Wash hands thoroughly after use and before handling food. Do not smoke or eat food whilst using the product. Keep product away from food and drinks.
- Respiratory Protection: No special measures necessary. As with all pressurised products take care to avoid spray or contents being inhaled when airborne.
- Hand Protection: Wear protective Gloves to prevent or minimise skin contact (due to difficulty in removal from hands and skin.) Under normal use, hand contact will be minimal.
- Eye Protection: Wear safety goggles to prevent accidental release into the eyes.
- Skin Protection: Avoid skin contact wherever possible. Cover unprotected skin to avoid or minimise contact (due to difficulty in removal from hands and skin.) Under normal use, product should not come into contact with skin.
- General: NOTE. This product is a dye and will stain skin and clothing.

9. Physical and Chemical Properties

- 9.1 Appearance
Physical form: Liquid Spray
Appearance: Bright, Strong Red liquid.
Odour: None.
- 9.2 Relevant parameters:
Solubility: Fully soluble.

10. Stability and Reactivity.

- 10.1 Conditions to avoid: Under normal storage and working conditions the product is stable.
- 10.2 Hazardous decomposition: No hazardous decomposition products will occur under normal storage and working conditions.

11. Toxicological Information

- 11.1 Immediate toxicity:
- 11.1.1 Dye Value LD50 (Rat) Oral = 5000mg/Kg (at 100% inclusion)
- 11.1.2 Dye Eco Toxicity: L₅₀ = 450mg/Ltr 48 Hours (Trout)
Dye Inclusion is <1.5% v/v
- 11.1.3 Dispersant Value LD50 (Rat) Oral = 2000mg/Kg (at 100% inclusion)
Inclusion is <0.25% v/v
- 11.1.4 Binder Value LD50 (Rat) Oral = 30000 mg/Kg (at 100% inclusion)
Binder Inclusion is <15% v/v
- Health Effects (Skin): Non Irritant (EC83) Rabbit. (Dye)
- Health Effects (Eyes): Non Irritant (EC83) Rabbit. (Dye)
- Delayed Chronic No data known that the product or it's substances have a
- Toxicity: bad or chronic influence on Health.

12. Ecological Information

- 12.1 Degradability: None known.
- 12.2 Mobility: The product is a liquid and emulsifies with water.
- 12.3 Eco Toxicological Effects: See Section 11.1.2
- 12.4 Further harmful ecological Information: None known.

13. Disposal Considerations.

- 13.1 Product: Water Soluble metal dye stain.
- Recommendation: Disposal by a licensed Company.
- Waste Name: Weak Water soluble dye.
- 13.2 Packaging: Pressure spray Tin.
- Recommendation: Empty the containers completely and dispose by a licensed Company.

14. Transport Information

- 14.1 Transportation by Road/Rail/Sea
(ADR / RID / IMDG):
- Mark/Letter: 2
- Class: 2.2
- UN N°.: 1950

15. Regulatory Information

- 15.1 Distinguishing marks: Outer packaging to be identified as Pressure Spray by use of the figures "1950" within the borders of a diamond displayed on the outer carton, and with the figure "2" displayed also within the border of the diamond.

16. Further Information

- 16.1 This information relates only to the product as supplied and may not be valid or relevant for this product used in combination with any other material or process other than that for which it was designed.