
PRODUCT SAFETY DATA SHEET FOR CRACK DETECTOR
DEVELOPER DYE PENETRANT SYSTEM DEVELOPER AEROSOL

1. IDENTIFICATION OF PRODUCT

Product Name - Crack Detector Developer Dye Penetrant System Developer Aerosol
Intended Use - No relevant information.
For professional use only.

2. COMPOSITION/INFORMATION OF INGREDIENTS

A blend of ketone solvent(s), dispersion aid(s), talc and hydrocarbon propellants.

For details of substances presenting a health hazard within the meaning of the Chemicals (Hazard Information and Packing) regulations 1993 see under Section 8 of this Safety Data Sheet.

3. HAZARDS IDENTIFICATION

Prolonged or repeated exposure to products containing refined mineral oil or HBPF distillates may result in dermatitis unless good personal hygiene is used. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Flammable.

4. FIRST AID MEASURES

General - In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air, keep warm and at rest. If breathing is irregular or stopped, give artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

Eye Contact - Contact lens should be removed. Irrigate copiously with clean, fresh water for at least ten minutes holding the eyelids apart – seek medical advice.

Skin Contact - Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.

Ingestion - If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. FIRE FIGHTING MEASURES

Extinguishing Media - Carbon dioxide, Dry powder, Halogenated Hydrocarbons, Sand, Foam.

Not to be used - Water

Special instructions for fire fighting personnel - Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with a water spray. Do not allow run off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in section. 7 & 8. Contain and collect spillages with non-combustible absorbent materials, (e.g. sand, earth) and place in suitable container for disposal, in accordance with the waste regulations. Do not allow large quantities to enter drains or water courses. If it does, local water companies should be contacted. In case of contamination of streams, rivers or lakes, the National Rivers Authority should be contacted.

7. STORAGE AND HANDLING

Do not use in areas where potential sources of ignition exist. Electrical equipment should be protected to the appropriate standard. Use non sparking tools and exclude sources of heat, sparks and flames. Avoid skin and eye contact. For personal protection see Section 8. Good housekeeping and regular removal of waste materials will minimise risks.

Store in accordance with the conditions of the licence which is necessary under the Petroleum (Consolidation) Act. See the HSE guidance note Storage of Flammable Liquids in Containers. Observe the label precautions. Store between 5° - 25°C in a dry, well ventilated place, away from sources of heat, ignition and direct sunlight. No smoking. The principles contained in the HSE's guidance note Storage of Packaged Dangerous substances should be observed when storing this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures - Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If extraction methods are insufficient to maintain concentrations of particulates and/or solvent vapours below relevant OEL's, suitable respiratory protective equipment should be worn.

Substance Name	% Conc Range	OES 8hr ppm	OES 15min. ppm	Risk Phrases
Proprietary blend of aliphatic hydrocarbon solvents (low hexane)	>70% & = <100%	300.00		11
Butane	>2.5% & = <10%	600.00	750.00	12

Notes

Notations = Sk – risk of absorption through skin. Sen – respiratory sensitizer.

OES = Occupational Exposure Standard MEL = Maximum Exposure Limit.

OEL's are from EH40 except where marked SUP which are assigned by the supplier of the substance.

General Protection - All ppe, including rpe, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH regulations.

Respiratory Protection - Air fed respiratory equipment should be worn when sprayed if levels cannot be controlled below OEL's and engineering methods cannot be reasonably improved.

Hand Protection - Full physical protection is best. Seek relevant advice from glove manufacturers. Barrier cream may be of help but should not be applied after exposure has occurred.

Eye Protection - Eye protection designed to protect against liquid splashes should be worn.

Skin Protection - Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Clear colourless liquid	Vapour Density	Heavier than Air
Flash Point	0°C Method Abel Apparatus To Brit. Standard BS2000 Pt.170	Lower Explosion Limit	
Viscosity		Solubility in Water	Partially miscible
Specific Gravity	.74 gms/cc Method Hydrometer		

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and acid materials to prevent the possibility of an exothermic reaction.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage

12. ECOLOGICAL INFORMATION

There is no data available on the product itself. Large quantities of the product should not be allowed to enter drains or water courses or be deposited where it can affect

ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

13. DISPOSAL CONSIDERATIONS

Do not allow large quantities to enter the drains or water courses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution & Environmental Protection Acts.

14. TRANSPORT INFORMATION

Sea Marine Pollutant No UN Number 1950 Class9
Ems 2 – 13 MFAG 260***
Main Risk ... Flammable IMDG Page No. 9022
Shipping Name .. Aerosol Dispensers Nos.

15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information & Packaging) Regulations as follows :-

Classification	F - Flammable
Contains	
Risk Phrases	10 Flammable
Safety Phrases	2 Keep out of reach of children
	46 If swallowed seek medical advice immediately and show this container or label.
	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	16 Keep away from sources of ignition – No Smoking
'P' Phrases	Do not breathe Vapour or Spray.

The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.

The provisions of the Health and Safety at Work, etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16. OTHER INFORMATION

Text of any Risk Phrases listed in Section 8

R11 Highly Flammable
R12 Extremely Flammable

Date of Origination 17.11.94.

Date of last revision 17.11.94.

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information & Packaging) Regulations. The product should not be used for purposes other than those shown in sect. 1 without first referring to the supplier and obtaining written instructions. As the specific conditions of use of the product are outside of the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in :-

The Control of Substances Hazardous to Health Regulations 1988 (SI 1988: 1657)

The Manual Handling Operations Regulations 1992 (SI 1992: 2793)

Storage of Flammable Liquids in Containers. HS(G)51.

Storage of Packaged Dangerous Substances. HS(G)71.

The Environmental Protection (Duty of Care) Regulations 1992 (SI 1988: 2839)