

SOLENT WELD FLAW DETECTOR DEVELOPER

Date of First Issue 16.2.04

Revision Date:

1. **Identification Code:** SOL 732-0280K

Commercial Name: SOLENT FLAW DETECTOR DEVELOPER

Emergency Telephone Number: 0116-288-8000

IDENTIFICATION OF THE SUBSTANCE/PREPARATION SPECIFICATION & INTENDED USE:

PRODUCT NAME: SOLENT WELD FLAW DETECTOR DEVELOPER 500 ML

PART NO: SOL 732-0280K SF3-500B

INTENDED USE & SPECIFICATION:

Solent Weld Flaw Detector Developer is specially formulated to react with Solent Dye Penetrant. The reaction will show small defects in the weld, thus allowing re-work to be carried out. The product dries quickly to a white film which will show defects as small pink spots in the dry film.

2. COMPOSITION/INFORMATION ON INGREDIENTS – NON-HAZARDOUS INGREDIENTS MAY NOT BE LISTED:

INGREDIENTS:	CAS NO:	EINECS NR:	RISK PHRASES	QUANTITY
White Spirit Petroleum Solvent	64742-82-1	265-185-4	Xn ,N R10, 51/53, 65, 66	1-5%
Hydrotreated Light	64742-49-0	265-151-9	Xi ,F ,N R-11, 38, 51/53, 65, 67	60-100%
Isobutane	75-28-5	200-857-2	F+ R-12	1-5%
Butane	106-97-8	203-448-7	F+ R-12	5-10%
Propane	74-98-6	200-827-9	F+ R-12	10.30%
Non-Hazardous Ingredients	-	-	-	Balance

The Full Text for all R-Phrases are Displayed in Section 16

3. HAZARDS IDENTIFICATION: Extremely flammable. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.

4. FIRST AID MEASURES:

GENERAL: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION: Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION: Do not induce vomiting! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.

SKIN: Wash skin immediately with soap and water. Get medical attention if any discomfort continues.

EYES: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Use: Powder. Dry chemicals, and, dolomite etc., Water spray, fog or mist

SPECIAL FIRE FIGHTING PROCEDURES: Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS: Aerosol cans may explode in fires.

6. ACCIDENTAL RELEASE MEASURES:

SPILL CLEAN-UP METHODS: Place leaking aerosol cans in a bucket or similar container. Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat, and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS: Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS: Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No	STD	LT EXP (8 hrs)	ST EXP (15 min)
BUTANE	106-97-8	OES	600 ppm	750 ppm
PROPANE	74-98-6		Asphyxiating	Asphyxiating
NAPHTHA (PETROLEUM) HYDROTREATED LIGHT	64742-49-0	OES	1000mg/m3	

INGREDIENT COMMENTS: OES = Occupational Exposed Standard. MEL = Maximum Exposure Limited
LT EXP = Long Term Exposure
ST EXP = Short Term Exposure

PROTECTIVE EQUIPMENT: Safety Eye protection/Hand protection advised

VENTILATION: Provide adequate general and local exhaust ventilation.

RESPIRATORS: No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL). Use chemical cartridge protection with appropriate cartridge.

PROTECTIVE GLOVES:	Use protective gloves.
EYE PROTECTION:	Wear approved chemical safety goggles where eye exposure is reasonably probable.
OTHER PROTECTION:	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
HYGIENIC WORK PRACTICES:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly wash if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. No eating or drinking while working with this material. Do not put cloths contaminated with product in overall pockets.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Aerosol
COLOUR:	White.
ODOUR/TASTE:	Characteristic
SOLUBILITY DESCRIPTION:	Insoluble in water
FLAMMABILITY LIMIT – LOWER(%):	0.6
FLAMMABILITY LIMIT – UPPER(%):	9.0

10. STABILITY AND REACTIVITY:

STABILITY:	Normally stable.
CONDITIONS TO AVOID:	Avoid heat, flames and other sources of ignition. Avoid contact with: strong oxidising agents. Strong alkalis. Strong mineral acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Fire creates: Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ²).

11. TOXICOLOGICAL INFORMATION:

INHALATION:	May cause irritation to the respiratory system. Solvent vapours are hazardous and may cause nausea, sickness and headaches. Prolonged inhalation of high concentrations may damage respiratory system.
INGESTION:	May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach.
SKIN:	Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.
EYES:	Irritating to eyes. May cause chemical eye burns.
ROUTE OF ENTRY:	Inhalation. Skin and/or eye contact.

12. ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION: Volumes packed in aerosol are unlikely to pose a significant hazard to the environment. Dangerous for the environment if discharged into watercourses.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS: Empty containers must not be burned because of explosion hazard. Dispose of in accordance with Local Authority requirements.

14. TRANSPORT INFORMATION:

LABEL FOR CONVEYANCE: FLAMMABLE GAS
UN NO. ROAD: 1950
UK ROAD TRANSPORT CLASS: 2.1
UK ROAD PACK GR: Not Applicable
ADR CLASS No: 2
ADR CLASS: Class 2: Gases: Compressed, Liquefied or dissolved under pressure.
ADR PACK GR: Not Applicable
ADR LABEL No: 2.1
CEFIC TEC(R) No: 20G53
PROPER SHIPPING NAME 1: AEROSOLS
RID CLASS No: 2
RID PACK GR: Not Applicable
UN NO. SEA: 1950
IMDG CLASS: 2.1
IMDG PACK GR: Not Applicable
EmS No: 2-13
MFAG TABLE No: See Guide
MARINE POLLUTANT: No.
UN NO. AIR: 1950
ICAO CLASS: 2.1
AIR PACK GR: Not Applicable

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY: IRRITANT
EXTREMELY FLAMMABLE
DANGEROUS FOR THE ENVIRONMENT

RISK PHRASES: R-12 Extremely Flammable.
R-38 Irritating to skin
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R-67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES: S-16 Keep away from sources of ignition - No Smoking.
S-2 Keep out of reach of children.
S-23C Do not breathe vapour/spray.
S-24 Avoid contact with skin.
S-51 Use only in well ventilated areas.
S-60 This material and its container must be disposed of as hazardous waste.
S-61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

UK REGULATORY REFERENCES: The Chemicals (Hazard Information & Packing for Supply) Regulations 2002.
The Control of Substances Hazardous to Health Regulations 2002.

STATUTORY INSTRUMENTS: Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packing) Regulations.

APPROVED CODE OF PRACTICE: Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES: Occupational Exposure Limited EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG (108).

16. OTHER INFORMATION:

R-PHRASES (FULL TEXT):

- R-11 Highly Flammable.
- R-38 Irritating to skin.
- R-51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
- R-65 Harmful, may cause lung damage if swallowed.
- R-67 Vapours may cause drowsiness and dizziness.
- R-10 Flammable
- R-66 Repeated exposure may cause skin dryness or cracking.
- R-12 Extremely flammable.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.