



Flaw Detector Dye Penetrant Spray

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier		
Product Name		Flaw Detector Dye Penetrant Spray.
Trade Name		Flaw Detector Dye Penetrant Spray.
Order Code		SOL 732-0260K
CAS No.		Mixture.
EINECS No.		Mixture.
REACH Registration No.		None assigned.
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified use(s)		Penetrating Dye Solution.
Uses advised against		None known.
1.3 Details of the supplier of the Safety Data Sheet		
Company Identification	Supplier Solent, Wigston, Leicester, England. LE18 2FS.	Manufacturer Action Can Ltd., Dixon Close, Old Boston Trading Estate, Haydock, St. Helens, Merseyside. WA11 9SF.
Telephone	+44 (0) 116 288 8000	00 44 1942 713667
Fax	+44 (0) 116 288 8222	01942 716235
E-Mail (competent person)		info@actioncan.com
1.4 Emergency telephone number		
Emergency Phone No.		01942 713667 (Mon – Fri: 9am to 5pm)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Regulation (EC) No. 1272/2008 (CLP)	Aerosol 1; Extremely flammable aerosol. Pressurised container: May burst if heated. Repr. 2; Suspected of damaging fertility or the unborn child. STOT RE 2; May cause damage to organs through prolonged or repeated exposure. Skin Irrit 2; Causes skin irritation. Eye Irrit 2; Causes serious eye irritation. Asp. Tox 1; May be fatal if swallowed and enters airways
2.2 Label elements	
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Solent Flaw Detector Dye Penetrant.
Hazard Symbol	
Signal Word(s)	Danger



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Hazard Statement(s)	<p>H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated. H315: Causes skin irritation. H319: Causes serious eye irritation H360d: May damage fertility or the unborn child. H373: May cause damage to organs through prolonged or repeated exposure. EUH066: Repeated exposure may cause skin dryness or cracking.</p>
Precautionary Statement(s)	<p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P403: Store in a well-ventilated place. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501: Dispose of contents/container in accordance with local/regional/national/international regulations. P102: Keep out of the reach of children.</p>
2.3 Other hazards	Build-up of explosive mixtures possible without sufficient ventilation.
2.4 Additional Information	None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictograms and hazard statements
Dimethyl ether	50 - 100	115-10-6	204-065-8	None assigned	GHS02, Flam. Gas 1, H220. GHS04, Press. Gas, H280
Toluene	2.5 -10	108-88-3	203-625-9	None assigned	GHS02, Flam. Liq. 2, H225; GHS08, Repr. 2, H361d; STOT RE 2, H373; Asp. Tox.1, H304. GHS07, Skin Irrit. 2, H315; STOT SE 3, H336.
Hydraulic Oil	2.5 -10	-	-	None assigned	GHS07, Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335
Blend C9-C12 C11-C15 ISO Alkanes	2.5 -10	-	-	None assigned	GHS02, Flam. Liq. 3, H226. GHS08, Asp. Tox. 1, H304

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3.2 Additional Information

For full text of R phrases see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Move person to fresh air. If breathing is laboured, oxygen should be administered by qualified personnel. If symptoms persist, obtain medical attention.

Skin Contact

Wash skin with soap and water. If irritation develops and persists, get medical attention.

Eye Contact

Remove any contact lenses. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If symptoms persist, obtain medical attention.

Ingestion

Unlikely route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

Unlikely to be required but if necessary treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

No special requirements.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Water spray, dry powder or carbon dioxide.

In case of major fire and large quantities: Extinguish with waterspray or foam.

Unsuitable Extinguishing Media

Water jet spray.

5.2 Special hazards arising from the substance or mixture

Heating may cause pressure rise with risk of bursting. May give off toxic fumes in a fire.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep fire exposed containers cool by spraying with water.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate sources of ignition. Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up

Place leaking cans in a bucket or pail to minimise product contamination of surfaces. Leaked product will render floors very slippery. Adsorb spillages onto sand, earth or any suitable adsorbent material.

6.4 Reference to other sections

See Also Section 7, 8, 13.

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7. SECTION 7: HANDLING AND STORAGE




- | | |
|---|--|
| <p>7.1 Precautions for safe handling</p> | <p>Keep receptacles tightly sealed. Ensure adequate ventilation. Open and handle receptacle with care. Keep away from sources of ignition - No smoking. Keep away from: Electrostatic charge. Do not spray on a naked flame or any incandescent material. Do not pierce or burn, even after use. Do not breathe vapour/spray. Avoid contact with skin and eyes. Keep out of reach of children. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.</p> |
| <p>7.2 Conditions for safe storage, including any incompatibilities</p> <p>Storage Temperature
Storage Life
Incompatible materials</p> | <p>Protect from sunlight. Store in dry place. Keep in a well ventilated place. Observe official regulations on storing packagings with pressurized container.
Do not expose to temperatures exceeding 50°C/ 122°F. Stable under normal conditions.</p> |
| <p>7.3 Specific end use(s)</p> | <p>No information available.
Penetrating Dye Solution.</p> |

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Dimethyl ether	115-10-6	400	766	500	958	WEL
Toluene	108-88-3	50	191	100	384	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

- | | |
|--|--|
| <p>8.1.2 Biological limit value</p> | <p>Not established.</p> |
| <p>8.1.3 PNECs and DNELs</p> | <p>Not established.</p> |
| <p>8.2 Exposure controls</p> <p>8.2.1 Appropriate engineering controls</p> | <p>Provide adequate ventilation, including appropriate local extraction.</p> |
| <p>8.2.2 Personal protection equipment</p> <p>Eye/face protection</p>  <p>Skin protection (Hand protection/Other)</p>  <p>Respiratory protection</p>  <p>Thermal hazards</p> | <p>Wear eye protection with side protection (EN166).</p> <p>Wear protective gloves. Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.</p> <p>No personal respiratory protective equipment normally required. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.</p> <p>Not applicable.</p> |



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General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

8.2.3 Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	According to product specification.
Odour	Characteristic.
Odour Threshold	Not determined.
pH	Not determined.
Melting Point/Freezing Point	Not determined.
Initial boiling point and boiling range	-24°C
Flash point	-42°C
Evaporation rate	Not applicable.
Flammability (solid, gas)	Extremely flammable.
Upper/lower flammability or explosive limits	3.0 – 18.6Vol-%
Vapour pressure	5200hPa @ 20°C
Vapour density	Not determined.
Relative density	Not determined.
Density	0.704g/cm ³ @ 20°C
Solubility(ies)	Immiscible with water.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	The product is not self-igniting.
Ignition temperature	235°C
Decomposition Temperature	Not determined.
Viscosity	Not available.
Explosive properties	Contains gas under pressure; may explode if heated.
Oxidising properties	Not oxidising.

9.2 Other information

Organic solvents	79.9%
Solids content	10.2%

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Stable under normal conditions.
10.4 Conditions to avoid	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
10.5 Incompatible materials	No information available.
10.6 Hazardous Decomposition Product(s)	Not available.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity

Low acute toxicity.

Irritation

Irritant to the skin and mucous membranes.



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Corrosivity	Not classified.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	None anticipated.
Toxicity for reproduction	Repr. 2; Suspected of damaging fertility or the unborn child.
11.2 Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Low toxicity to aquatic organisms.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. Must not be disposed together with household garbage.
13.2 Additional Information	Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number	UN 1950
14.2 UN proper shipping name	
14.2.1 ADR/RID/IMDG	AEROSOLS.
14.2.2 ICAO/IATA	AEROSOLS, FLAMMABLE.
14.3 Transport hazard class(es)	
14.3.1 ADR/RID	2 (5F Gases)
14.3.2 IMDG/ICAO/IATA	2.1
14.4 Packing Group	None.
14.5 Environmental hazards	Not classified as a Marine Pollutant.
14.6 Special precautions for user	Warning: Gases.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
14.8 Additional Information	Packed in limited quantities, 1L.
14.8.1 IMDG Code	EmS: F-D, S-U
14.8.2 Tunnel Restriction Code	D



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15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations:

Technical Instructions (air) :

Class	Share in %
NK	76.4

Water hazard class:

Water Hazard Class 2 (Self assessment): hazardous for water.

Chemical Safety Assessment:

A Chemical Safety Assessment has not been carried out.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
ADN	European transport by inland waterways
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ICAO	International transport by air
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
RID	European transport by rail
WGK	Wassergefährdungsklasse (Germany)
Acute Tox. 4	Acute toxicity Category 4
Aerosol 1	Aerosol Category 1
Aquatic Acute 1	Hazardous to the aquatic environment Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment Chronic Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment Chronic Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/irritation Category 2
Flam. Gas 1	Flammable gas Category 1
Flam. Liq. 2	Flammable Liquid Category 2
Flam. Liq. 3	Flammable Liquid Category 3
Press. Gas	Gases under pressure
Pyr. Sol. 1	Pyrophoric solid Category 1
STOT RE 2	Specific target organ toxicity — repeated exposure Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
Repr. 2	Reproductive toxicity Category 2
Water-react. 2	Substance or mixture which in contact with water emits flammable gas Category 2

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Hazard Statement(s) and Precautionary Statement(s)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gases.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
P261	Avoid breathing vapours.
P264	Wash (hands and exposed skin) thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P312	Call a POISON CENTER/doctor if you feel unwell.
P391	Collect spillage.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Hazard Pictogram(s)

GHS02



GHS08



GHS04



GHS07





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Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose.

We give no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. We accept no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Annex to the extended Safety Data Sheet (eSDS)

No information available.