



LM-90 Line Marking Paint



SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 453/2010

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

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| 1.1 Product identifier | |
| Product Name | LM-90 Line Marking Paint. |
| Trade Name | LM-90 Line Marking Paint. |
| Part No. | 1744, 1745, 1891, 1893, 1897, 1898 |
| 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) | <ul style="list-style-type: none">Marking identification lines/ road marking, construction marking.Used to mark out lines on Concrete, Tarmac, Stone, Grass, Wood, Glass, Metals. |
| Uses advised against | None known. |
| 1.3 Details of the supplier of the Safety Data Sheet | |
| Company Identification | Action Can Ltd., Dixon Close, Old Boston Trading Estate, Haydock, St. Helens, Merseyside. Wa11 9SF. |
| Telephone | 01942 713667 |
| Fax | 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

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| 2.1 Classification of the substance or mixture | |
| Directive 67/548/EEC & Directive 1999/45/EC | F+; Extremely flammable. Xn; Harmful by inhalation and in contact with skin. Xi; Irritating to skin. |
| 2.2 Label elements | |
| Product Name | According to Directive 67/548/EEC & Directive 1999/45/EC LM-90 Line Marking Paint. |
| Hazard Symbol |   |
| Risk Phrases | F+ Xn R12: Extremely flammable. R20/21: Harmful by inhalation and in contact with skin. R38: Irritating to skin. |



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| Safety Phrases | S16: Keep away from sources of ignition - No smoking. S23: Do not breathe vapour/spray. S24/25: Avoid contact with skin and eyes. S36/37: Wear suitable protective clothing and gloves. |
| Additional Information | Pressurized 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. |
| 2.3 Other hazards | None. |
| 2.4 Additional Information | None. |

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

EC Classification No. 67/548/EEC

| Hazardous ingredient(s) | %W/W | CAS No. | EC No. | REACH Registration No. | EC Classification and Risk Phrases |
|--------------------------|---------|------------|-----------|------------------------|------------------------------------|
| Xylene | 0 - 5 | 1330-20-7 | 215-535-7 | None assigned | R10, Xn; R20/21, Xi; R38 |
| 2-butoxyethanol | 5 - 10 | 111-76-2 | 203-905-0 | None assigned | Xn; R20/21/22, Xi; R36/38 |
| 1-methoxypropan-2-ol | 5 - 10 | 107-98-2 | 203-539-1 | None assigned | R10, R67 |
| Acetone | 10 - 30 | 67-64-1 | 200-662-2 | None assigned | F; R11, Xi; R36, R66, R67 |
| Petroleum gas, liquefied | 20 - 40 | 68476-85-7 | 270-704-2 | None assigned | F+; R12 |

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

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| Inhalation | Remove to fresh air immediately. If breathing has stopped, apply artificial respiration. Do not give anything by mouth to an unconscious person. If symptoms persist, obtain medical attention. |
| Skin Contact | Wash skin with soap and water. If symptoms persist, obtain medical attention. |
| Eye Contact | Hold eye open and rinse slowly and gently with water for 15-20 minutes. |
| 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. |



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5. SECTION 5: FIRE-FIGHTING MEASURES

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| 5.1 Extinguishing Media | Suitable Extinguishing Media | Extinguish preferably with foam, carbon dioxide or dry chemical. |
| | Unsuitable Extinguishing Media | None known. |
| 5.2 Special hazards arising from the substance or mixture | | Heating may cause pressure rise with risk of bursting. Decomposes in a fire giving off toxic fumes: Oxides of carbon. |
| 5.3 Advice for fire-fighters | | Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep fire exposed containers cool by spraying with water. |

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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| 6.1 Personal precautions, protective equipment and emergency procedures | | Eliminate sources of ignition. Stop leak if safe to do so. Wear suitable gloves and eye/face protection. |
| 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. Cover spills with inert absorbent material. Transfer to a container for disposal. |
| 6.4 Reference to other sections | | See Also Section 7, 8, 13. |

7. SECTION 7: HANDLING AND STORAGE

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| 7.1 Precautions for safe handling | | Ensure adequate ventilation. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Pressurized 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. |
| 7.2 Conditions for safe storage, including any incompatibilities | Storage Temperature Storage Life Incompatible materials | Store in dry place. Store in a well-ventilated place. Keep away from heat, sources of ignition and direct sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Stable under normal conditions. Strong oxidising agents, Strongly alkaline, Strongly acidic. |
| 7.3 Specific end use(s) | | <ul style="list-style-type: none"> • Marking identification lines/ road marking, construction marking. • Used to mark out lines on Concrete, Tarmac, Stone, Grass, Wood, Glass, Metals. |



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8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

| SUBSTANCE | CAS No. | LTTEL (8 hr TWA ppm) | LTTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
|--------------------------|------------|----------------------|-------------------------------------|------------|---------------------------|----------|
| Xylene | 1330-20-7 | 50 | 220 | 100 | 441 | WEL (Sk) |
| 2-butoxyethanol | 111-76-2 | 25 | 123 | 50 | 246 | WEL (Sk) |
| 1-methoxypropan-2-ol | 107-98-2 | 100 | 375 | 150 | 560 | WEL(Sk) |
| Acetone | 67-64-1 | 500 | 1210 | 1500 | 3620 | WEL |
| Petroleum gas, liquefied | 68476-85-7 | 1000 | 1750 | 1250 | 2180 | WEL |

WEL: Workplace Exposure Limit (UK HSE EH40)

Sk - Can be absorbed through skin.

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation.

8.2.2 Personal protection equipment

Eye/face protection



Not normally required. Wear eye protection with side protection (EN166).

Skin protection (Hand protection/Other)



Wear: Impervious gloves. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection



Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

Thermal hazards

Not applicable.

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

Variant/ Covers all colours.

Odour

Not available.

Odour Threshold

Not applicable.

pH

Not available.

Melting Point/Freezing Point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

Not available.

Evaporation rate

Not available.

Flammability (solid, gas)

Extremely flammable.

Upper/lower flammability or explosive limits

Not available.



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| Vapour pressure | Not available. |
| Vapour density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | Not available. |
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition Temperature | Not available. |
| Viscosity | Not applicable. |
| Explosive properties | Contains gas under pressure; may explode if heated. |
| Oxidising properties | Not available. |
| 9.2 Other information | None. |

10. SECTION 10: STABILITY AND REACTIVITY

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|--|--|
| 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 | Should be kept away from naked flames and other sources of ignition. |
| 10.5 Incompatible materials | Strong oxidising agents, Strongly alkaline, Strongly acidic. |
| 10.6 Hazardous Decomposition Product(s) | Oxides of carbon. |

11. SECTION 11: TOXICOLOGICAL INFORMATION

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|--|---|
| 11.1 Information on toxicological effects | |
| 11.1.1 Mixtures | |
| Acute toxicity | Harmful by inhalation and in contact with skin. |
| Irritation | Irritating to skin. |
| Corrosivity | Not classified. |
| Sensitisation | It is not a skin sensitiser. |
| Repeated dose toxicity | None anticipated. |
| Carcinogenicity | No evidence of carcinogenicity. |
| Mutagenicity | There is no evidence of mutagenic potential. |
| Toxicity for reproduction | None anticipated. |
| 11.2 Other information | None. |

12. SECTION 12: ECOLOGICAL INFORMATION

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|--|------------------------------------|
| 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 | No information available. |
| 12.6 Other adverse effects | None known. |

13. SECTION 13: DISPOSAL CONSIDERATIONS

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|-------------------------------------|--|
| 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. |
| 13.2 Additional Information | Disposal should be in accordance with local, state or national legislation. |



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14. SECTION 14: TRANSPORT INFORMATION

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|---|---------------------------------------|
| 14.1 UN number | UN 1950 |
| 14.2 UN proper shipping name | AEROSOLS. |
| ADR/RID/ADN/IMDG | AEROSOLS, FLAMMABLE. |
| ICAO/IATA | 2 |
| 14.3 Transport hazard class(es) | None. |
| 14.4 Packing Group | Not classified as a Marine Pollutant. |
| 14.5 Environmental hazards | None. |
| 14.6 Special precautions for user | Not applicable. |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | |
| 14.8 Additional Information | |
| 14.8.1 ADR/RID Item No | 5F |
| 14.8.2 CEFIC TEC (R) No | 20G26-2 |
| 14.8.3 IMDG Page number | 2102 |
| 14.8.4 Limited Quantity (LQ) | Limited Quantity provisions apply. |

15. SECTION 15: REGULATORY INFORMATION

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| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| 15.1.1 EU regulations | |
| Authorisations and/or restrictions on use | |
| Candidate List of Substances of Very High Concern for Authorisation | All chemicals are not listed. |
| REACH: ANNEX XIV LIST OF SUBSTANCES SUBJECT TO AUTHORISATION | All chemicals are not listed. |
| REACH: ANNEX XVII RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES | All chemicals are not listed. |
| Community Rolling Action Plan (CoRAP); Draft 29/02/2012 | All chemicals are not listed. |
| Other EU regulations | <ul style="list-style-type: none">• COSHH - Control of Substances Hazardous to Health• CHIP - Chemicals (Hazard Information and Packaging) Regulations• Aerosol Dispensers Regulation 1996/2421 (EC Directive 94/1) |
| 15.1.2 National regulations | None known. |
| 15.2 Chemical Safety Assessment | Not available. |



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16. SECTION 16: OTHER INFORMATION

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

LEGEND

| | |
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| 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 |
| F+ | Extremely flammable |
| Xi | Irritant |
| Xn | Harmful |

Risk Phrases

| | |
|-----------|---|
| R10 | Flammable. |
| R11 | Highly flammable |
| R12 | Extremely flammable. |
| R20/21 | Harmful by inhalation and in contact with skin. |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R36 | Irritating to eyes. |
| R38 | Irritating to skin. |
| R36/38 | Irritating to eyes and skin. |
| R66 | Repeated exposure may cause skin dryness or cracking. |

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.