

## SAFETY DATA SHEET

### AMS Powerline Line Marker 750ml (All Colours)

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

##### 1.1. Product identifier

Product name AMS Powerline Line Marker 750ml (All Colours)  
Product No. Various

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Marker Paint

##### 1.3. Details of the supplier of the safety data sheet

Supplier AMS Chemicals Limited  
84 Sutton Avenue  
Eastern Green  
Coventry  
CV5 7EB  
Tel: 02476 473940  
Fax: 02476 460270

##### 1.4. Emergency telephone number

National Emergency Telephone Number  
AMS Chemicals Ltd ++44 (0) 2476 473 940 (Mon-Fri 09:00 - 17:00)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

|                               |   |
|-------------------------------|---|
| Physical and Chemical Hazards | Flam. Aerosol 1 - H222                        |
| Human health                  | EUH066; Eye Irrit. 2 - H319; STOT SE 3 - H336 |
| Environment                   | Aquatic Chronic 3 - H412                      |

Classification (1999/45/EEC)

Xi; R36. F+; R12. R52/53, R66, R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

Environment

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Physical and Chemical Hazards

Pressurised container: Must not be exposed to temperatures above 50°C. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

##### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

H222  
H319

Extremely flammable aerosol.  
Causes serious eye irritation.

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|  |  |   |
|--|--|---|
| Precautionary Statements               | H336<br>H412                                     | May cause drowsiness or dizziness.<br>Harmful to aquatic life with long lasting effects.  |
|  | P210<br>P211<br>P251<br>P280<br>P314<br>P410+412 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking.<br>Do not spray on an open flame or other ignition source.<br>Pressurized container: Do not pierce or burn, even after use.<br>Wear protective gloves/protective clothing/eye protection/face protection.<br>Get medical advice/attention if you feel unwell.<br>Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. |
| Supplementary Precautionary Statements | P273<br>P264<br>P501                             | Avoid release to the environment.<br>Wash contaminated skin thoroughly after handling.<br>Dispose of contents/container in accordance with national regulations.  |
| Supplemental label information         | EUH066   | Repeated exposure may cause skin dryness or cracking.   |

### 2.3. Other hazards

H229 Pressurised container: May burst if heated.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

|   |  |
|---|--|
| ACETONE   | 10-30%   |
| CAS-No.: 67-64-1  | EC No.: 200-662-2  |
| Registration Number: 01-2119471330-49   |  |
| Classification (EC 1272/2008)<br>Flam. Liq. 2 - H225<br>EUH066<br>Eye Irrit. 2 - H319<br>STOT SE 3 - H336 | Classification (67/548/EEC)<br>F;R11<br>Xi;R36<br>R66<br>R67 |
| PROPANE   | 10-30%   |
| CAS-No.: 74-98-6  | EC No.: 200-827-9  |
| Registration Number: 01-2119486944-21   |  |
| Classification (EC 1272/2008)<br>Flam. Gas 1 - H220   | Classification (67/548/EEC)<br>F+;R12                        |
| BUTANE/ISOBUTANE  | 10-30%   |
| CAS-No.: 106-97-8   | EC No.: 203-448-7  |
| Registration Number: 01-2119474691-32   |  |
| Classification (EC 1272/2008)<br>Flam. Gas 1 - H220   | Classification (67/548/EEC)<br>F+;R12.                       |
| SOLVENT NAPHTHA, LIGHT AROMATIC   | 5-10%  |
| CAS-No.: 64742-95-6   | EC No.: 265-199-0  |
| Registration Number: 01-2119486773-24   |  |

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|   |  |
|---|--|
| Classification (EC 1272/2008)<br>Flam. Aerosol 2 - H223<br>EUH066<br>STOT SE 3 - H335, H336<br>Asp. Tox. 1 - H304<br>Aquatic Chronic 2 - H411 | Classification (67/548/EEC)<br>Xn;R65.<br>Xi;R37.<br>N;R51/53.<br>R10,R66,R67. |
|---|--|

|  |                   |                                       |
|--|-------------------|---------------------------------------|
| BUTYL ACETATE -norm <span style="float: right;">5-10%</span> |                   |                                       |
| CAS-No.: 123-86-4  | EC No.: 204-658-1 | Registration Number: 01-2119485493-29 |

|  |  |
|--|--|
| Classification (EC 1272/2008)<br>Flam. Liq. 3 - H226<br>EUH066<br>STOT SE 3 - H336 | Classification (67/548/EEC)<br>R10<br>R66<br>R67 |
|--|--|

|  |                   |                                       |
|--|-------------------|---------------------------------------|
| 1,2,4-TRIMETHYLBENZENE <span style="float: right;">1-5%</span> |                   |                                       |
| CAS-No.: 95-63-6   | EC No.: 202-436-9 | Registration Number: 01-2119472135-42 |

|  |  |
|--|--|
| Classification (EC 1272/2008)<br>Flam. Liq. 3 - H226<br>Acute Tox. 4 - H332<br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>STOT SE 3 - H335<br>Aquatic Chronic 2 - H411 | Classification (67/548/EEC)<br>R10<br>Xn;R20<br>Xi;R36/37/38<br>N;R51/53 |
|--|--|

|   |                   |                                       |
|---|-------------------|---------------------------------------|
| CUMENE <span style="float: right;">&lt; 1%</span> |                   |                                       |
| CAS-No.: 98-82-8                                  | EC No.: 202-704-5 | Registration Number: 01-2119473983-24 |

|  |  |
|--|--|
| Classification (EC 1272/2008)<br>Flam. Liq. 3 - H226<br>STOT SE 3 - H335<br>Asp. Tox. 1 - H304<br>Aquatic Chronic 2 - H411 | Classification (67/548/EEC)<br>R10<br>Xn;R65<br>Xi;R37<br>N;R51/53 |
|--|--|

|   |                   |                                       |
|---|-------------------|---------------------------------------|
| MESITYLENE <span style="float: right;">&lt; 1%</span> |                   |                                       |
| CAS-No.: 108-67-8                                     | EC No.: 203-604-4 | Registration Number: 01-2119463878-19 |

|  |  |
|--|--|
| Classification (EC 1272/2008)<br>Flam. Liq. 3 - H226<br>STOT SE 3 - H335<br>Aquatic Chronic 2 - H411 | Classification (67/548/EEC)<br>R10<br>Xi;R37<br>N;R51/53 |
|--|--|

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

General information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. Do not give victim anything to drink if they are unconscious.

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### Inhalation

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

### Ingestion

Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention.

### Skin contact

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

### Eye contact

Immediately rinse with water. Continue to rinse for at least 15 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention immediately. Continue to rinse.

### **4.2. Most important symptoms and effects, both acute and delayed**

#### General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

#### Inhalation

Vapours may cause drowsiness and dizziness.

#### Ingestion

Drowsiness, dizziness, disorientation, vertigo.

#### Skin contact

Prolonged skin contact may cause redness and irritation.

#### Eye contact

May cause severe irritation to eyes.

### **4.3. Indication of any immediate medical attention and special treatment needed**

The following symptoms may occur: Nausea, Headache, Dizziness, Coughing, Breathing Difficulty.

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

#### Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

#### Unsuitable extinguishing media

Do not use a solid water stream.

### **5.2. Special hazards arising from the substance or mixture**

#### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### Unusual Fire & Explosion Hazards

Extremely flammable. Forms explosive mixtures with air. May explode in a fire. Vapours are heavier than air and may spread near ground to sources of ignition.

#### Specific hazards

Pressurised container: Must not be exposed to temperatures above 50°C.

### **5.3. Advice for firefighters**

#### Special Fire Fighting Procedures

Aerosol cans may explode in a fire. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.

Avoid water in straight hose stream; will scatter and spread fire. Collect contaminated fire fighting water separately. Do not let enter the sewage system.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. For personal protection, see section 8.

### **6.2. Environmental precautions**

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Prevent entry into drains.

### **6.3. Methods and material for containment and cleaning up**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear necessary protective equipment. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth and place into containers.

### **6.4. Reference to other sections**

For personal protection, see section 8. See section 11 for additional information on health hazards. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. Avoid inhalation of vapours and spray mists. Do not spray on a naked flame or any incandescent material. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

### **7.2. Conditions for safe storage, including any incompatibilities**

Extremely flammable. Store at moderate temperatures in dry, well ventilated area. Keep away from heat, sparks and open flame. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Storage Class

Extremely Flammable Aerosol

### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **8.1. Control parameters**

| Name                            | STD | TWA - 8 Hrs |               | STEL - 15 Min |               | Notes |
|---------------------------------|-----|-------------|---------------|---------------|---------------|-------|
|                                 |     |             |               |               |               |       |
| ACETONE                         | WEL | 500 ppm     | 1210 mg/m3    | 1500 ppm      | 3620 mg/m3    |       |
| BUTANE/ISOBUTANE                | WEL | 600 ppm     |               | 750 ppm       |               |       |
| BUTYL ACETATE -norm             | WEL | 150 ppm     | 724 mg/m3     | 200 ppm       | 966 mg/m3     |       |
| CUMENE                          | WEL | 25 ppm(Sk)  | 125 mg/m3(Sk) | 50 ppm(Sk)    | 250 mg/m3(Sk) |       |
| PROPANE                         | WEL | 1000 ppm    | 1800 mg/m3    |               |               |       |
| SOLVENT NAPHTHA, LIGHT AROMATIC | WEL | 25 ppm      | 50 mg/m3(Sk)  |               |               |       |

WEL = Workplace Exposure Limit.

#### **ACETONE (CAS: 67-64-1)**

##### DNEL

|          |             |            |      |           |
|----------|-------------|------------|------|-----------|
| Consumer | Oral        | Long Term  | 62   | mg/kg/day |
| Consumer | Dermal      | Long Term  | 62   | mg/kg/day |
| Industry | Dermal      | Long Term  | 186  | mg/kg/day |
| Consumer | Inhalation. | Long Term  | 200  | mg/m3     |
| Industry | Inhalation. | Short Term | 2420 | mg/m3     |
| Industry | Inhalation. | Long Term  | 1210 |           |

##### PNEC

|                        |      |       |
|------------------------|------|-------|
| Freshwater             | 10.6 | mg/l  |
| Marinewater            | 1.06 | mg/l  |
| Intermittent release   | 21   | mg/l  |
| Soil                   | 29.5 | mg/l  |
| Sediment (Marinewater) | 3.04 | mg/kg |
| Sediment (Freshwater)  | 30.4 | mg/kg |

### **8.2. Exposure controls**

Protective equipment

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### Process conditions

Ensure suitable ventilation of area.

### Engineering measures

Provide adequate ventilation.

### Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. In case of inadequate ventilation use suitable respirator.

### Hand protection

For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. (Sk) noted above means can be absorbed through skin.

### Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

### Other Protection

Provide eyewash station.

### Hygiene measures

When using do not eat, drink or smoke. Wash promptly if skin becomes wet or contaminated.

### Personal protection

Wear protective work clothing.

### Skin protection

Wear cold insulating gloves

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|                                |   |
|--------------------------------|---|
| Appearance                     | Aerosol.  |
| Colour                         | Varying.  |
| Odour                          | of solvents   |
| Solubility                     | Immiscible with water   |
| Relative density               | 1.2-1.3 @ 25 Deg.C<br>Density of paint base   |
| Flash point (°C)               | <-40 Deg.C  |
| Auto Ignition Temperature (°C) | 410-580   |
| Flammability Limit - Lower(%)  | 1.8%  |
| Flammability Limit - Upper(%)  | 9.5%  |
| Comments                       | A flash point method is not available for aerosols but the major hazardous component, the Propellant has flash point of <-40 C with flammability limits of 9.5% vol. upper and 1.8% vol. lower. Auto ignition temperature is 410/580 C. |

### 9.2. Other information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Highly volatile.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions if stored under normal conditions.

### Hazardous Polymerisation

Will not polymerise.

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### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

### **10.5. Incompatible materials**

Materials To Avoid

Strong acids. Strong alkalis. Strong oxidising substances.

### **10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: TOXICOLOGICAL INFORMATION

### **11.1. Information on toxicological effects**

General information

Contains organic solvents Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation

Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication.

Ingestion

Harmful: may cause lung damage if swallowed. Drowsiness, dizziness, disorientation, vertigo.

Skin contact

Repeated exposure may cause skin dryness or cracking. Contains components which may penetrate the skin.

Eye contact

Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting.

Health Warnings

In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Arrhythmia, (deviation from normal heart beat).

Route of entry

Inhalation. Skin absorption.

Target Organs

Central nervous system Respiratory system, lungs Kidneys

Medical Symptoms

Narcotic effect. Vapours may cause drowsiness and dizziness.

Specific effects

Defatting, drying and cracking of the skin.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment. Do not allow to enter drains, sewers or watercourses.

### **12.1. Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **12.2. Persistence and degradability**

Degradability

There are no data on the degradability of this product.

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### 12.3. Bioaccumulative potential

Bioaccumulative potential  
No data available on bioaccumulation.

### 12.4. Mobility in soil

Mobility:  
The product contains volatile substances, which may spread in the atmosphere.

### 12.5. Results of PBT and vPvB assessment

Not determined

### 12.6. Other adverse effects

## SECTION 13: DISPOSAL CONSIDERATIONS

General information

Do not puncture or incinerate even when empty. Ensure containers are empty before discarding (explosion risk). Dispose of waste and residues in accordance with local authority requirements.

### 13.1. Waste treatment methods

Make sure containers are empty before discarding (explosion risk). Do not puncture or incinerate even when empty. Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORT INFORMATION

General

This product is packed in accordance with the Limited quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow the transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing they are labelled in accordance with the requirements of those regulations to show that they are transported as Limited Quantities. Aerosols not so packed must show the following.

### 14.1. UN number

|                      |      |
|----------------------|------|
| UN No. (ADR/RID/ADN) | 1950 |
| UN No. (IMDG)        | 1950 |
| UN No. (ICAO)        | 1950 |

### 14.2. UN proper shipping name

Proper Shipping Name                      AEROSOLS

### 14.3. Transport hazard class(es)

|                     |                |
|---------------------|----------------|
| ADR/RID/ADN Class   | 2, 5F          |
| ADR/RID/ADN Class   | Class 2: Gases |
| ADR Label No.       | 2.1            |
| IMDG Class          | 2.1            |
| ICAO Class/Division | 2.1            |
| Transport Labels    |                |



### 14.4. Packing group

## AMS Powerline Line Marker 750ml (All Colours)

ADR/RID/ADN Packing group #  
IMDG Packing group #  
ICAO Packing group #

### **14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant  
No.

### **14.6. Special precautions for user**

EMS F-D, S-U  
Tunnel Restriction Code (D)

### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Health and Safety at Work Act 1974. Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

ECHA: Guidance on the Compilation of safety data sheets. (V1.1, December 2011)

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). The Aerosol Dispensers Regulations 2009 (SI 2824)

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

### **15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

Issued By Technical Service Manager  
Revision Date 4 November 2014  
Revision 5  
Supersedes date 30 October 2014  
SDS No. 10914  
Date 4 November 2014

## AMS Powerline Line Marker 750ml (All Colours)

### Risk Phrases In Full

|           |   |
|-----------|---|
| R12       | Extremely flammable.  |
| R10       | Flammable.  |
| R20       | Harmful by inhalation.  |
| R52/53    | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R65       | Harmful: may cause lung damage if swallowed.  |
| R11       | Highly flammable  |
| R36/37/38 | Irritating to eyes, respiratory system and skin.  |
| R36       | Irritating to eyes.   |
| R37       | Irritating to respiratory system.   |
| R66       | Repeated exposure may cause skin dryness or cracking.   |
| R51/53    | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.   |
| R67       | Vapours may cause drowsiness and dizziness.   |

### Hazard Statements In Full

|        |   |
|--------|---|
| H319   | Causes serious eye irritation.                        |
| H315   | Causes skin irritation.                               |
| H222   | Extremely flammable aerosol.                          |
| H220   | Extremely flammable gas.                              |
| H223   | Flammable aerosol.                                    |
| H226   | Flammable liquid and vapour.                          |
| H332   | Harmful if inhaled.                                   |
| H412   | Harmful to aquatic life with long lasting effects.    |
| H225   | Highly flammable liquid and vapour.                   |
| H304   | May be fatal if swallowed and enters airways.         |
| H336   | May cause drowsiness or dizziness.                    |
| H335   | May cause respiratory irritation.                     |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H411   | Toxic to aquatic life with long lasting effects.      |

### 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 a 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 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.