

## **MATERIAL SAFETY DATA SHEET**

SDS Reference: **nv15**

Version No: **01**

Revision date: **090408**

Authorisation date: **9<sup>th</sup> April 2008**

Linemark (UK) Ltd.  
Units 1-2 Riverside Business Park  
Holme Lane  
Rawtenstall  
Lancs, BB4 6JB

**Tel: 01706 212030 Fax: 01706 213737 email: sales@linemark.co.uk**

### **1. PRODUCT IDENTIFICATION**

<b><u>Trade Name</u></b>	Linemark Paint
<b><u>Description</u></b>	Xylene free linemarkers aerosol

### **2. HAZARDOUS INGREDIENTS**

<b>Component</b>	<b>CAS No</b>	<b>Classification</b>	<b>Concentration/%</b>
1-Methoxy-2-Propanol	107-98-2	R10	1-5
Acetone	67-64-1	F;R11 Xi;R36 R66 R67	10-30
Butane	106-97-8	F+;R12	5-10
Butyl Acetate	123-86-4	R10 R66 R67	10-30
Dimethyl Ether	115-10-6	F+;R12	10-30
Isobutane	75-28-5	F+;R12	1-5
Methyl Methacrylate	80-62-6	F;R11 R43 Xi;R37/38	<1
Propane	74-98-6	F+;R12	5-10

### **3. HAZARD IDENTIFICATION**

Extremely flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.	
<b>CLASSIFICATION</b>	F+;R12. R66,R67

#### 4. FIRST AID MEASURES

<b>General information</b>	
<b>Inhalation</b>	If inhaled, provide fresh air, warmth, rest and if necessary, seek medical advice.
<b>Skin contact</b>	Immediately wash contaminated skin with soap and large quantities of water. If necessary seek medical advice.
<b>Eye contact</b>	Make sure to remove any contact lenses from the eye before rinsing. Promptly wash eyes with plenty of water while lifting eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
<b>Ingestion</b>	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.
<b>Further information</b>	

#### 5. FIRE FIGHTING MEASURES

<b>General hazard</b>	THE PRODUCT IS FLAMMABLE
<b>Extinguishing media</b>	Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.
<b>Special exposure hazards</b>	Aerosols may explode in a fire.
<b>Special fire fighting procedures</b>	Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.
<b>Spill clean up methods</b>	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.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Methods for cleaning up</b>	Adhere to personal protective measures. Take up with absorbent material, e.g. sand, sawdust into tightly closable containers. Label container and dispose of as described.
<b>Environmental considerations</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
<b>Further information</b>	

#### 7. HANDLING & STORAGE

<b>Advice on safe handling</b>	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.
<b>Storage conditions</b>	Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C
<b>Further information</b>	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT- ppm	LT – mg/m <sup>3</sup>	ST - ppm	ST – mg/m <sup>3</sup>
Propane		Asphyxiating	Asphyxiating	Asphyxiating	Asphyxiating
Butane	OES	600 ppm	1450 mg/m <sup>3</sup>	750 ppm	1810 mg/m <sup>3</sup>
Dimethyl ether	OES	400 ppm	766 mg/m <sup>3</sup>	500 ppm	958 mg/m <sup>3</sup>
1-Methoxy-2-Propanol	OES	100 ppm (sk)	375 mg/m <sup>3</sup> (sk)	150 ppm (sk)	560 mg/m <sup>3</sup> (sk)
Acetone	OES	500 ppm	1210 mg/m <sup>3</sup>	1500 ppm	3620 mg/m <sup>3</sup>
Butyl acetate	OES	150 ppm	724 mg/m <sup>3</sup>	200 ppm	966 mg/m <sup>3</sup>
Methyl methacrylate	OES	50 ppm	208 mg/m <sup>3</sup>	100 ppm	416 mg/m <sup>3</sup>
Isobutane	OES	800 ppm		800 ppm	

OES = Occupational Exposure Standard

**PROTECTIVE EQUIPMENT** Gloves and eye protection

### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit. Use chemical protection cartridge with appropriate cartridge.

### HAND PROTECTION

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.

### HYGIENE MEASURES

**DO NOT SMOKE IN WORK AREA!** Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical form</b>	Aerosol
<b>Colour</b>	Various – white, yellow, blue, red, black, orange, green
<b>Odour</b>	Characteristic
<b>Water solubility</b>	Insoluble in water
<b>Flammability Limit –lower(%)</b>	2.15
<b>Flammability Limit –upper(%)</b>	18.60

## 10. STABILITY & REACTIVITY

<b>Stability</b>	Stable under normal conditions of handling.
<b>Thermal decomposition</b>	
<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition.
<b>Material to avoid</b>	Strong oxidising agents. Strong alkalis. Strong mineral acids.
<b>Hazardous reactions</b>	
<b>Hazardous decompositions products</b>	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	May cause irritation to the respiratory system. Vapours may cause headaches, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach.
<b>Skin contact</b>	Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.
<b>Eye contact</b>	Irritating to eyes.
<b>Route of entry</b>	Inhalation. Skin and/or eye contact.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Dangerous for the environment if discharged into watercourses.
--------------------	----------------------------------------------------------------

### 13. DISPOSAL CONSIDERATIONS

<b>Advice on disposal</b>	Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority.
---------------------------	---------------------------------------------------------------------------------------------------------------------------------------

### 14. TRANSPORT INFORMATION

<b>UK Road Class</b>	2		
<b>UN No.</b>	1950	<b>UK Road Pack Gr.</b>	n/a
<b>ADR Class No.</b>	2	<b>ADR Class</b>	Class2: Gases
<b>ADR Pack Group</b>	n/a	<b>ADR label No.</b>	2.1
<b>CEFIC TEC(R) No.</b>	20G5F	<b>RID Class No.</b>	2
<b>RID PACK GROUP</b>	n/a	<b>UN No. SEA</b>	1950
<b>IMDG CLASS</b>	2	<b>IMDG Pack Gr.</b>	n/a
<b>EMS</b>	F-D, S-U	<b>MFAG</b>	See Guide
<b>Marine pollutant</b>	NO.	<b>UN No. AIR</b>	1950
<b>Proper shipping name</b>	Aerosols		
<b>ICAO CLASS</b>	2.1	<b>Air Pack Gr.</b>	n/a

## 15. REGULATORY INFORMATION

<b>Classification &amp; labelling</b>	EXTREMELY FLAMMABLE	
<b>Risk phrases</b>	R12	Extremely flammable
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.
<b>Safety phrases</b>	S16	Keep away from sources of ignition – No smoking.
	S37	Wear suitable gloves.
	S51	Use only in well ventilated areas.
	S2	Keep out of reach of children.
	S23	Do not breathe vapour/spray.

## 16. OTHER INFORMATION

**This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.**