

DIRECTA

ESSENTIALS FOR INDUSTRY

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TECHNICAL DATA SHEET

PRODUCT: Deemark Spot On Spray Marker

Our Reference: DEESPOT??

Line Maker Paint

200ml Aerosol in a range of colours.

COLOUR RANGE:

Blue, Green & Black.

USES:

Suitable for use as a fast drying coating for line marking, survey marking, car park lines etc on tarmac, concrete and grass.

TYPE:

Pigmented acrylic resin.

Lead free pigmentation.

Xylene free.

DRYING TIME @ 20° C

Surface dry 15 minutes.

Hard dry 1 hour.

Drying times will be extended at low temperatures.

Do not apply in ambient temperatures falls below 10°C or relative humidity exceeds 90%.

COVERAGE:

1 can will give between 30 to 50 metres of 50mm line when used in a standard machine, depending on application weight.

DIRECTIONS FOR USE:

Ensure all surfaces are clean, dry and free from dust, grease, millscale etc.

Shake the can for at least 1 minute after the agitator balls are heard rattling and again frequently during use.

After use clear the valve by spraying in an upright position for 1 or 2 seconds, ensuring that the can is pointing away from the user. Take care to avoid over spray onto surrounding areas, especially in windy conditions.

Allow to dry for at least 2 hours before subjecting the marking to traffic.

Disclaimer: The above information is for guidance only. It is given in good faith but without warranty. Users should first carry out their own trials to ascertain the suitability of the product for their intended purpose.

HEALTH AND SAFETY

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name:	Linemarker Paint – All colours
Application:	Linemarker Paint
Supplier:	Directa (UK) Ltd Cold Norton Essex CM3 6UA Tel: 01621 828882 Fax: 01621 828072

2. COMPOSITION/ INFORMATION ON INGREDIENTS:

Name	EC No.	CAS-No.	Content	Classification
ACETONE	200-662-2	67-67-1	10-30%	F;R11 Xi;R36 R66 R67
BUTANE	206-448-7	106-97-8	5-10%	F+, R12
BUTANONE	201-159-0	78-93-3	5-10%	F;R11 Xi;R36 R66 R67
ETHYL ACETATE	205-500-4	141-78-6	1-5%	FIR11 Xi;R36 R66 R67
ISOBUTANE	200-857-2	75-28-5	1-5%	F+;R12
Solvent Naphtha (Petroleum) Light Aromatic			1-5%	Xn;R65 Xi;R38 F+;R12 N;R51/53

The full text for R-Phrases are displayed in Section 16.

3. HAZARDS AND IDENTIFICATION:

Extremely flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

ENVIRONMENT

The product contains a substance which is hazardous to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. See Section 12 as well.

PHYSICAL AND CHEMICAL HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

HUMAN HEALTH

Gas or vapour on prolonged exposure or in high concentration. In high concentration, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue and nausea. Deliberately concentration and inhaling the contents of this container is dangerous and can be fatal.

4. FIRST AID MEASURES

GENERAL INFORMATION

Move the exposed person to fresh air at once.

INHALATION

In case of inhalation of spray mist: Move person into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest.

INGESTION

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

SKIN CONTACT

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes and get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray should be used to cool containers. Use water to keep fire exposed containers cool and disperse vapours. Warn fire fighters that aerosols are involved.

UNUSUAL FIRE & EXPLOSION HAZARDS

Extremely flammable. Forms explosive mixtures with air. May travel considerable distance to source of ignition and flash back. Aerosol cans may explode in a fire.

SPECIFIC HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Avoid inhalation of vapours and aerosol spray.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable absorbent material.

SPILL CLEAN-UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb spillage with non-combustible, absorbent material. Let evaporate. Keep out of confined spaces because of explosion risk.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray near a naked flame or any incandescent material.

STORAGE PRECAUTIONS

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

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Name	Std	LT – ppm	LT – mg/m ³	ST – ppm	ST – mg/m ³
BUTANE	WEL	600 ppm		750 ppm	
ACETONE	WEL	500 ppm	1210 mg/m ³	1500 ppm	3620 mg/m ³
BUTANONE	WEL	200 ppm(Sk)	600 mg/m ³ (Sk)	300 ppm(Sk)	899 mg/m ³ (Sk)
ETHYL ACETATE	WEL	200 ppm		400ppm	
ISOBUTANE	WEL	800 ppm		No std.	

INGREDIENT COMMENTS

OES= Occupational Exposure Standard.

ENGINEERING MEASURES

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of spray.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

Due to packaging form, aerosol, risk of skin contact is small. For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the glove supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

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

HYGIENE MEASURES

Wash hands after use. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.

PERSONAL PROTECTION

When using, do not smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Aerosol
Odour:	Organic solvents
Physical Data Comments:	Information given concerns the major ingredient.
Flash Point (°C)	<-40°C
Auto Ignition Temperature (°C):	410-580
Flammability Limit - Lower(%)	1.8
Flammability Limit - Upper(%)	9.5

10. STABILITY AND REACTIVITY:

STABILITY

Avoid: heat, sparks, flames.

CONDITIONS TO AVOID:

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

HAZARDOUS DECOMPOSITION PRODUCTS

By fire, toxic gases (CO, CO₂, NO_x) may be formed.

11. TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

Deliberately concentrating and inhalation the contents of this container is dangerous and can be fatal.

INHALATION

In high concentrations, vapours and aerosol mists have a narcotic effects and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.

SKIN CONTACT

Repeated exposure may cause skin dryness or cracking.

EYE CONTACT

Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting. Repeated exposure may cause chronic eye irritation.

HEALTH WARNINGS

Arrhythmia, (deviation from normal heart beat).

In high concentration, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

ROUTE OF ENTRY

Inhalation.

TARGET ORGANS

Central nervous system. Respiratory system, lungs.

MEDICAL SYMPTOMS

Arrhythmia, (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness. Skin irritation.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Do not puncture or incinerate even when empty.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Make sure containers are empty before discarding (explosion risk). Empty containers must not be burned because of explosion hazards

14. TRANSPORT INFORMATION

GENERAL

This product is packed in accordance with the Limited Quantity Provisions of CDGPL2, ADR and IMDG.

These provisions allow transport of aerosols less than 1 litre packed in cartons of less than 30Kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities.

Aerosols not so packed and labelled must show the following.

UK ROAD CLASS	2
PROPER SHIPPING NAME	AEROSOLS
UN NO, ROAD	1950
UK ROAD PACK GR.	Not applicable
ADR CLASS NO.	2, 5F
ADR CLASS	Class 2.1: Flammable gases
ADR PACK GROUP	Not applicable
HAZARD NP. (ADR)	23 Flammable gas
ADR LABEL NO.	3
CEPIC TEC(R) NO.	20G53
RID CLASS NO.	2
RID PACK GROUP	Not applicable
UN NO. SEA	1950
IMDG CLASS	2.1
IMDG PAGE NO.	2102
IMDG PACK GR.	Not applicable
EMS	2-13
UN NO. AIR	1950
AIR CLASS	2.1
AIR PACK GR.	Not applicable.

15. REGULATORY INFORMATION

LABELLING:

Irritant
Extremely Flammable

RISK PHRASES

R12 Extremely flammable
R36 Irritating to eyes
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S2 Keep out of reach of children
S16 Keep away from sources of ignition – No smoking.
S23 Do not breathe vapour/spray.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51 Use only in well ventilated areas.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC. System of specific information relating to Dangerous Preparations. 2001/58/EEC

STATUTORY INSTRUMENTS

Chemicals (Hazard Information Packaging) Regulations. Controls of Substances Hazardous to Health. The Aerosol Dispensers Regulations 1977 & 1999

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. British Aerosol Manufacturers Code of Practice 7th Edition 1999

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108)

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

16. OTHER INFORMATION

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material use 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 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.