
LINE MARKER SPRAY
PRODUCT SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT AND USES

PRODUCT NAME: Line Marker Spray

PRODUCT TYPE: A hand-held pre-pressurised aerosol

SPECIFIED USE: line marking

2. COMPOSITION INFORMATION

ACTIVE CONTENTS: Resins, Pigments

OTHER CONTENTS: Organic solvents

INGREDIENTS	CAS NO INDEX	CLASSIFICATION	RANGE	COMPOSITION:
*Solvent naphtha	64742-94-5			10%~15%
*Dimethyl carbonate	616-38-6			10%~15%
*Resin	8050-09-7			19%~ 23%
* Pigment	n/a			10%~20%
*DME	115-10-6	/ F+,R12)		20%~30%

3. HAZARD IDENTIFICATION / SAFETY PRECAUTIONS

The contents are **FLAMMABLE** and maybe **HARMFUL** by deliberate prolonged inhalation or ingestion.

Hydrocarbon propellant is an asphyxiant if there is insufficient ventilation. This would constitute abuse of the product.

ALWAYS WASH HANDS AFTER USE. Repeated exposure may cause skin dryness or cracking.

KEEP IN A SAFE PLACE AWAY FROM CHILDREN.

FLAMMABLE: pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 degrees C. Do not spray onto a naked flame, any incandescent material, hot surface or unprotected electrical equipment.

DO NOT BREATHE SPRAY MIST. Vapours may cause drowsiness and dizziness.

DO NOT SPRAY NEAR EYES. Irritating to eyes.

4. FIRST AID MEASURES

INHALATION: Asphyxiation by butane will precede any toxicological effects of the active elements. Remove the patient to fresh air and treat symptomatically.

SKIN CONTACT: Wash with soap and water. Mild irritation may occur. Repeated contact may cause skin dryness and cracking.

EYE CONTACT: **NEVER AEROSOLS NEAR EYES/MUCOUS MEMBRANES.** Flush with copious quantities of water. Seek medical advice. Product is classified as irritating to eyes.

INGESTION: Unlikely. May cause nausea and discomfort. Carry out a gastric lavage to reduce discomfort. The contents would tend to be absorbed by the body with no significant effects, particularly in these concentration. Treat symptomatically. Seek medical advice and show the container.

5. FIRE FIGHTING MEASURES

Pressurised aerosols should not be exposed to temperatures exceeding 50°C. Above this, containers may explode and the resultant flammable mixture will burn to produce CO₂.

Use water to cool undamaged stock only. Avoid contamination of the water where courses where damaged stock is leaking.

EXTINGUISHING MEDIA; CO₂; BCF; dry powder, sand or earth.

For larger fire use foam, water fog or spray, avoiding contamination.

POSITIVE PRESSURE BREATHING APPARATUS SHOULD BE USED.

6. ACCIDENTAL RELEASE MEASURES

INITIAL SPILLAGE WOULD BE FLAMMABLE. Keep damaged containers away from sources of ignition and in well ventilated areas.

Contents may cause staining and it should be expected that marks will not be able to be removed.

ENVIRONMENT. In the concentrations within 1-1000 cans the components would not present an environmental hazard as most of the product would quickly evaporate, leaving only the residue.

Cleaning. In small quantities any liquid should be absorbed into a suitable media, such as sand and disposed of safely. The residue should be washed away with soapy water, though staining should be expected.

7. HANGLING AND STORAGE

Handling. Handle carefully. In general handling aerosols should not be considered as hazardous.

Storage. Always store aerosols away from sources of heat, including direct sunlight and in dry conditions. Avoid extremes of temperature and moisture. A stable, cool, dry ambient environment is most suitable. Avoid contamination with other products.

The containers will not last indefinitely even when stored in a cool dry area, they should be inspected periodically during long-term storage.

Note container warnings.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Supplier recommends 600ppm total hydrocarbon based on composition. As with all aerosols, the products should only be used in well ventilated areas, but responsible use is not potentially harmful.

Respiratory protection. If ventilation is not possible, then suitable respiration is essential if there is a risk of solvent vapour concentrations. Use organic/inorganic vapour filters. Vapours may cause drowsiness or dizziness.

In general the aerosol product is a convenient and safe method of supply. Only in continuous or repeated usage conditions should personal protective measures be required exposure controls considered.

9. PHYSICAL AND CHEMICAL PROPERTIES

As the product is an aerosol, it is an aerosol container with no potential properties, provided the container warnings are observed.

Details apply to the liquid phase of the product only (propellant gas will evaporate immediately):

Appearance:	transparent
Odour:	aerosol
PH:	not applicable
Bolling point:	>60°C
Melting point:	<-20°C
Flash point:	nominally 0°C
Autoflammability:	unknown for blend
Explosive properties:	none
Oxidizing properties:	none
Relative density:	0.97kg/m ³
Solubility:	not water soluble. Re-dispersible in aromatic solvents or ketones.
VOC value:	≤410mg/L (DME and acetone not belong to voc according to USA VOV regulation)

10. STABILITY AND REACTIVITY

The container is inherently stable under instructed conditions for a reasonable period of time (at least 24-25 months).

AVOID extremes of temperature, including direct sunlight and extreme freezing. Avoid exposure to moisture. Which may damage container deterioration and PH, where acidity may damage container integrity. Avoid sudden impacts, which may damage container integrity.

Avoid contact with water, acids, high temperatures.

Container corrosion may occur with time and damaged containers should be disposed of before any danger is evident.

Flammable. Liquid contents should be considered generally not reactive.

11. TOXICOLOGICAL INFORMATION

THIS IS DESIGNED FOR EXTERNAL USE ONLY.

Essentially, when used in this aerosol form, there are no potential toxic effects. The data is as follows:

ACETONE LD50 5800MG/KG oral rat, LDLo 1159mg/kg unreported route of access in man

dimethyl ether The Occupational Exposure Standard is 600ppm(1430mgm)

Used correctly in aerosol form. All components can be considered to have a low order of toxicity (LD50 oral rat 500mg/kg, skin 3000mg/kg). deliberate inhalation may cause severe pulmonary and breathing difficulty, dizziness, drowsiness(narcosis) and headaches (but this is unlikely in normal usage) and would constitute abuse.

Skin and eye irritation may result from continued exposure to vapours when used in areas of poor ventilation. Or when working in close proximity to the spray for prolonged periods, and suitable steps should be taken to avoid such conditions.

12. ECOLOGICAL INFORMATION

This relates to the contents only. See disposal.

The product will evaporate quickly to the air. A coloured liquid, easily absorbed, will evaporate and leave a solid. The solid will present no other significant hazards, with no dangerous arising from degradation.

Mobility will be very slow.

Degradation will be relatively slow though ultimately almost complete.

Accumulation is unlikely once physical breakdown commences.

Short and long term effects should not be considered significant. Very short term damage to aquatic and soil organisms may occur in large spillage (1000+containers) though this should disperse quickly (especially if absorbent material is used).

13. DISPOSAL CONSIDERATIONS

The container should be totally discharged and disposed of as hazardous waste. **SEE CONTAINER WARNINGS.** I.e. do not puncture or incinerate/burn even after use. Dried material is non-hazardous.

14. TRANSPORT INFORMATION

UN NUMBER: UN1950 CLASS 2.1

15. REGULATORY INFORMATION

The COSHH Regulations apply in the UK.

The CHIP Regulations apply in the UK.

The Environmental Protection Act Regulations apply in the UK.

SYMBOLS: F⁺, Xi

RISK/SAFETY PHRASES:

F⁺ Flammable. Keep out of reach children. Protect from sunlight and do not expose to temperatures exceeding 50 degrees C. Do not pierce or burn, even after use. Do not spray onto naked flame or any incandescent material. (Aerosol safety phrases).

Xi Irritant

R12 Extremely flammable

R36 Irritating to eyes

R38 Irritating to skin

R66 Repeated exposure will cause skin dryness and cracking

R67 Vapours may cause drowsiness and dizziness.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S(2) Keep out of the reach of children

S9	Keep container in a well ventilated place
S16	Keep away from sources of ignition—No smoking
S23	Do not breathe vapour/spray
S26	in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S45	In case of accident or if you feel unwell seek medical advice immediately (show container).
S51	Use only in well ventilated areas
S53	Avoid Exposure -read MSDS sheet before use

16. OTHER INFORMATION

This is an aerosol product and should be used carefully.

It represents no greater dangers than any other aerosol product and all regulations applicable are general industry guidelines.

The information included is all that available for the component products at this time.

The information contained herein is based upon the current state of our knowledge.

Since the storage, application and disposal of these products is not within the control of the company, it is the user's obligation to determine the conditions of safety in terms of all aspects relating to their products. The company accepts no liability for and makes no claims regarding the use, qualities or components of this product, with may vary.

ALWAYS OBSERVE ALL CONTAINER AND DATA SHEET WARNINGS.

ALWAYS READ THE LABEL BEFORE USE.