

Safety Data Sheet

Chemicals (Hazard Information and Packaging) Regulations 1993

Applicable To: **Linemarking Aerosols**

1. Identification of the Substance / Preparation and of the Company

Product name: Linemarker Aerosols
Use / description of product: Extremely flammable. Liquid.

2. Composition / Information on Ingredients

Ingredient 1: 1-METHOXY-2-PROPANOL <3%

CAS: 107-98-2

EINECS: 203-539-1

[-] R10;

Ingredient 2: AROMATIC HYDROCARBONS BPT 160/180 <3%

[-] R10; [Xn] R65;

Ingredient 3: ACETONE 10-20%

CAS: 67-64-1

EINECS: 200-662-2

[F] R11; [Xi] R36; [Xi] R66; [-] R67;

Ingredient 4: DIMETHYL ETHER 10-20%

CAS: 115-10-6

EINECS: 204-065-8

[F+] R12;

Ingredient 5: ISOBUTANE <3%

CAS: 75-28-5

EINECS: 200-857-2

[F+] R12;

Ingredient 6: BUTANE 5-10%

CAS: 106-97-8

EINECS: 203-448-7

[F+] R12;

Ingredient 7: PROPANE 5-10%

CAS: 74-98-6

EINECS: 200-827-9

Ingredient 8: N-BUTYL ACETATE 10-20%

CAS: 123-86-4

EINECS: 204-658-1

[-] R10; [Xi] R66; [-] R67;

3. Hazards Identification

Main hazards: Extremely flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Other hazards: In use, may form flammable / explosive vapour-air mixture.

4. First Aid Measures (Symptoms)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. Corneal burns may occur.

Ingestion: Nausea and stomach pain may occur. There may be vomiting and diarrhoea. There may be loss of consciousness. Convulsions may occur.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness. Convulsions may occur.

4. First Aid Measures (Action)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If conscious, give 1 pint of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

5. Fire-Fighting Measures

Extinguishing media: Carbon dioxide. Alcohol resistant foam.

Exposure hazards: Extremely flammable. Vapour may travel considerable distance to source of ignition and flash back. Forms explosive air-vapour mixture.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal precautions: Eliminate all sources of ignition. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Mix with sand or vermiculite. If inside, transfer outside of building in suitable containers. For small spills, absorb on to paper and allow to evaporate in a fume cupboard. Wash the spillage site with large amounts of water.

7. Handling and Storage

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Smoking is forbidden.

Storage conditions: Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Ensure lighting and electrical equipment are not a source of ignition.

8. Exposure Controls / Personal Protection

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety goggles.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC.

9. Physical and Chemical Properties

State: Aerosol

Colour: Various

Odour: Characteristic odour

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Flammability limits %: lower: 0.8 upper: 18.6

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to avoid: Sources of ignition. Flames. Heat.

Materials to avoid: Strong oxidising agents. Mineral Acids. Strong alkalis.

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide and carbon monoxide.

11. Toxicological Information

Effects of exposure May cause irritation to the respiratory system. Solvent vapours are hazardous and may cause nausea, sickness and headaches.

Prolonged inhalation of high concentrations may damage respiratory system. May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach. Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to eyes.

Routes of exposure Inhalation. Skin and/or eye contact.

Ingredient 1: 1-METHOXY-2-PROPANOL

IVN RAT LD50 4200mg/kg
ORL MUS LD50 11700mg/kg
ORL RAT LDLO 3739mg/kg

Ingredient 3: ACETONE

IVN RAT LD50 5500mg/kg
ORL MUS LD50 3gm/kg
ORL RAT LD50 5800mg/kg

Ingredient 8: N-BUTYL ACETATE

ORL MUS LD50 6gm/kg
ORL RAT LD50 10768mg/kg

12. Ecological Information

Other adverse effects: Dangerous for the environment if discharged into watercourses.

13. Disposal Considerations

Waste disposal: Dispose of in accordance with local authority regulations.

Disposal of packaging Empty containers must not be burned because of explosion hazard.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport Information

ADR / RID
UN no: 1950
ADR Class: 2
Labelling: 2.1
Shipping name: AEROSOLS

IMDG / IMO
UN no: 1950
Class: 2
EmS: F-D,S-U
Marine pollutant: .
Labelling: 2.1

IATA / ICAO
UN no: 1950
Class: 2
Labelling: 2.1

15. Regulatory Information

Hazard symbols: Extremely flammable.

Risk phrases:

R12: Extremely flammable.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

Safety phrases:

S2: Keep out of the reach of children.

S16: Keep away from sources of ignition - No smoking.

S23: Do not breathe vapour.

S37: Wear suitable gloves.

S51: Use only in well-ventilated areas.

Pressurized container: protect from sunlight and do not expose to temperatures

exceeding 50°C. Do not pierce or burn, even after use.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Additional Information

Risk phrases used in s.2:

R10: Flammable.

R65: Harmful: may cause lung damage if swallowed.

R11: Highly flammable.

R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

R12: Extremely flammable.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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