



HEALTH & SAFETY PRODUCT DATA SHEET

NAME OF PRODUCT

**SOURCE MANUFACTURING
FOG LIQUID**

SOURCE MANUFACTURING LIMITED

Unit 7, Joules Court, Waterloo Road, Stockport, Cheshire SK1 3BD

Telephone: +44 (0)161 476 0166 . Fax: +44 (0)161 476 0177

SAFETY DATA SHEET

SOURCE MANUFACTURING FOG LIQUID

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION & COMPANY

Name: SOURCE MANUFACTURING FOG LIQUID
Synonyms: FLUID (neutral)
Supplied by: SOURCE MANUFACTURING LTD Tel: +44 (0)161 476 0166
UNIT 7, JOULES COURT Fax: +44 (0)161 476 0177
WATERLOO ROAD
STOCKPORT
CHESHIRE SK1 3BD

2. COMPOSITION / INFORMATION ON INGREDIENTS

Contains glycol's, polyglycols and de-mineralised water.
Contains no substances in Part 1 of the approved Supply List, or with a maximum exposure limit (MEL) specified in Schedule 1 of COSHH.
Contains monopropylene glycol, for which an occupational exposure standard has been set.

3. HAZARDOUS INFORMATION

No significant hazard to man or environment under normal conditions of handling and use.
INGESTION - Low toxicity.
EYE / SKIN - Low toxicity.
INHALATION - Low concentration of hazardous substances in vapour. Undiluted vapour should not be inhaled. (Note: The concentration of smoke components in the final product is below the OES under normal operating conditions).

4. FIRST AID MEASURES

Exposure Route	Symptom	Treatment
Inhalation	Mild irritation of nose & throat	Remove from exposure, rest and keep warm. In severe cases or if recovery is not very rapid or complete, seek medical attention.
Skin Contact	Mild irritation	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of skin are damaged or if irritation persists seek medical attention
Eye Contact	Mild irritation	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.
Ingestion	Mild irritation of gastro-intestinal tract	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell, seek medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishers	Alcohol resistant or all purpose-type foam. Use carbon dioxide or dry powder for small fires only.
Unsuitable Extinguishers	Do not direct a solid stream of water or foam into hot burning pools; as this may cause frothing and increase the intensity of a fire.
Hazardous Combustion Products	Oxides of carbon including aldehydes.
Special Equipment for fire fighting	Self contained breathing apparatus

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6. **ACCIDENTAL RELEASE MEASURES**
Safety Precautions Where appropriate PPE when handling - see section 8
Environmental Precautions Prevent entry into drains and water courses
Clean up Procedure Bund or absorb material with sand, earth or other
 suitable absorbent material. If possible, transfer to a
 salvage tank, otherwise absorb residues and place in
 suitable labelled containers and hold for waste
 disposal see section 14.
7. **HANDLING & STORAGE**
Safe Handling Avoid prolonged skin contact. Avoid contact with eyes
 Ensure good ventilation of area. Avoid creating spray
 do not breathe the undiluted vapour.
Storage Store in original closed containers only.
 Store at ambient temperature only.
 Store away from materials listed in section 10.
8. **EXPOSURE CONTROLS & PERSONAL PROTECTION**
Respiratory Type approved RPE for organic vapours and mists, if
 required.
Hand PVC coated or rubber gloves.
Eye Goggles or face shield.
Skin Overalls and boots.
Hygiene Measures Always wash thoroughly after handling chemicals.
9. **PHYSICAL & CHEMICAL PROPERTIES**
Appearance Colourless Liquid
Odour Mild
pH Neutral
Boiling Point / Range 101.6 - 201.6°C
Melting Point / Range < -20°C
Flash Point > 78°C (test flame extinguished at 78°C)
Flammability Limits 2.9 - 18.1 v/v (estimated)
Vapour Pressure 2.67 kPa at 20°C
Relative density 1.050 at 20°C / 20°C
Solubility in water Completely miscible
10. **STABILITY & REACTIVITY**
Stability Stable in normal conditions
Known hazardous reactions Possibility of explosive decomposition if combined
 with strong acids or bases at elevated temperatures.
Conditions to avoid Elevated temperatures
Materials to avoid Strong acids and bases: strong oxidisers
Hazardous decomposition products Oxides of carbon, including aldehydes
11. **TOXICOLOGICAL INFORMATION**
OES for monopropylene glycol set at 150 ppm (total vapour and particulates) for 8-hour TWA, and
10 mg/m³ (particulates) for 15-minute STEL
LD₅₀ for monopropylene glycol:
 21000 - 33700 mg/kg oral - rat, >10000 mg/kg skin - rabbit.
May cause slight irritation to skin, eyes and mucous membranes. Large doses may produce adverse
effects on liver, kidney's and central nervous system.
No evidence in developmental toxicity studies for either embryotoxic or teratogenic effects
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12. **ECOLOGICAL INFORMATION**

Mobility

Liquid with low volatility, soluble in water, predicted to have high mobility in soil.

Degradability

The preparation is largely biodegradable:

BOD₂ = 1.08 gO₂/g; ThOD = 1.68 gO₂/g;

COD = 1.63 gO₂/g: BOD₂₀/ThOD = 86%

Accumulation

Low

Short and long-term effects

LC₅₀ fathead minnow = 4600 - 54900 mg/l

EC₅₀ Daphnia magna = 4850 - 34400 mg/l

13. **TRANSPORT INFORMATION**

No special precautions for transport.

14. **DISPOSAL CONSIDERATIONS**

Substance

Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Container

As for substance. Used containers must not be cut up or punctured until completely purged of product residues.

15. **REGULATORY INFORMATION**

Supply label details

In accordance with CHIP 2, Regulation 9.

Label Name

Fog Liquid

Symbol

No risk or safety phrases stipulated.

Risk phrases

No risk or safety phrases stipulated.

Safety phrases

No risk or safety phrases stipulated.

E.E.C. Number

Use of this material may be governed by the following regulations:

COSHH, HSWA, MHSW.

Users are advised to consult these regulations for further information. The information contained in this data sheet does not constitute an assessment of workplace risk as required by other health and safety legislation.

16. **OTHER INFORMATION**

No special training is required for handling this preparation other than normal precautions for safe handling of chemicals.

This material is usually used for the production of synthetic smoke in an appropriate ANTARI smoke generator. The concentration of smoke components is below the OES under normal operating conditions.

It must not be used for any other purpose, or in any other equipment

Further information can be obtained from the supplier, whose address and telephone number are given in section 1.

17. **LEGAL DISCLAIMER**

The above information is based on the present state of our knowledge of the product at the times of publication of this data sheet. It is given in good faith, no warranty is implied with respect to the quality of the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

If you have purchased the product for supply to a third party, it is your duty to take all necessary steps to ensure that any person handling and using the product is provided with the information in this sheet. If you are an employer it is your duty to tell your employees and others who may be affected by any hazard described in this sheet and of any precautions that should be taken.