

SAFETY DATA SHEET **PRO-SMOKE SUPER FLUID**

Identification of the Substance/Preparation & Company

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Pro-Smoke Super Fluid Name:

Synonyms: ZR Fluid

Manifactured by: Martin Manufacturing (UK) Plc. Tel: +44 (0) 1507 604399 Belvoir Way, Fax: +44 (0) 1507 601956

Fairfield Industrial Estate, Louth, Lincolnshire LN11 0LQ

Show Technology, 101 Derby st, Silverwater 2128, NSW Australia, Tel: +61 (2) 9748 1122 Supplied by:

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2 **Composition/Information on Ingredients**

Contains food grade glycols, polyglycols and de-mineralised water.

Symptom

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

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Inhalation	Mild irritation of nose	Remove from exposure, rest and keep warm. In severe cases, or
	0.1	

& throat if recovery is not rapid or complete, seek medical attention

Treatment

Skin Contact Mild irritation Drench the skin with plenty of water. Remove contaminated

clothing and wash before re-use. If large areas of the skin are damaged or if irritation persists seek medical attention

Mild irritation **Eye Contact** Irrigate thoroughly with water for at least 10 minutes. Obtain

medical attention

Mild irritation of gastro-Ingestion Wash out mouth with water. Do not induce vomiting. If patient intestinal tract

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

Revision No.: B Date: January 2018

Replaces SDS No.: Date:

SDS No. 114 Date: JANUARY 2018

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6 Accidental Release Measures

Safety Precautions Wear 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 13

7 Handling and Storage

Safe Handling Avoid prolonged skin contact. Avoid contact with eyes. Ensure good general

ventilation of area. Avoid creating spray. Do not breathe undiluted vapour

Storage Store in original closed containers

Store at ambient temperature

Store away from materials listed in section 10

8 Exposure Controls and 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 and Chemical Properties**

Appearance: Colourless Liquid

Odour: Mild PH Neutral

Boiling Point/Range: 101.6 - 201.6 °C

Melting Point/Range: < -20 oC

Flash Point: > 78 oC (test flame extinguished at 78 oC)

Flammability Limits: 2.9 - 18.1 v/v (estimated)

Vapour Pressure: 2.67 kPa at 20°C

Relative density: 1.050 at 20 oC/20 oC Solubility in water: Completely miscible

10 Stability and 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 Oxides of carbon, including aldehydes

products

Revision No.: B Date: January 2018

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11 Toxicological InformationName: Pro-Haze Fluid

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, kidneys and central nervous system.

No evidence in developmental toxicity studies for either embryotoxic or teratogenic effects.

12 Ecological Information

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

soil

Degradability The preparation is largely biodegradable:

 $BOD_s = 1.08 \text{ gO}_3/\text{g}$; ThOD = 1.68 gO₃/g; COD = 1.63 gO₃/g

 BOD_{20} /ThOD = 86%

Accumulation Low

Short and long-term effects LC_{50} , fathead minnow = 4600 - 54900 mg/l

 EC_{so} , Daphnia magna = 4850 - 34400 mg/l

13 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

14 Transport Information

No special precautions for transport

15 Regulatory Information

Supply label details In accordance with CHIP 2, Regulation 9.

Label Name Pro-Smoke Super

Symbol

Risk phrases

Safety phrases $LC_{50'} \text{ fathead minnow} = 4600 - 54900 \text{ mg/l}$ $EC_{50'} \text{ Daphnia magna} = 4850 - 34400 \text{ mg/l}$

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 JEM smoke- machine. 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 details may be available on request from the supplier, whose address and telephone number are given in section 1.

Sources of information:

Suppliers' Safety Data Sheets for substances used as raw materials in the preparation.

EH 40/97

NFPA 325M

17 Legal Disclaimer

The above information is based on the present state of our knowledge of the product at the time of publication. 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.

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