

# Material Safety Data Sheet

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Infosafe No™ SILAE Issue Date :October 2008 ISSUED by MING CS: 1.4.22

Product Name : **MING FABRIC PROTECTOR**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** MING FABRIC PROTECTOR  
**Product Code** 8145800  
**Company Name** MING STEALSTOPPER (VIC) PTY LTD  
**Address** 275 Canterbury Road Canterbury  
Victoria 3126 Australia  
**Telephone/Fax Number** Tel: (03) 9888-6789  
Fax: (03) 9888-6944  
**Recommended Use** Water Repellant Fabric Treatment.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** HAZARDOUS SUBSTANCE.  
DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.

**Risk Phrase(s)** R11 Highly flammable.  
R38 Irritating to skin.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R62 Possible risk of impaired fertility.  
R65 Harmful: may cause lung damage if swallowed.  
R67 Vapours may cause drowsiness and dizziness

**Safety Phrase(s)** S16 Keep away from sources of ignition - No smoking.  
S2 Keep out of reach of children.  
S24/25 Avoid contact with skin and eyes.  
S29 Do not empty into drains.  
S33 Take precautionary measures against static discharges.  
S36/37 Wear suitable protective clothing and gloves.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.  
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.  
S9 Keep container in a well ventilated place.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Hexane	110-54-3	60-100 %
	Release Agent		0-<10 %

## 4. FIRST AID MEASURES

**Inhalation** Remove the source of contamination or the affected person to fresh air. Ensure airways are clear. Apply artificial respiration if not breathing. Seek medical attention.

**Ingestion** Do NOT induce vomiting. Wash out mouth with water. Do not give anything by mouth to an unconscious person. Seek medical attention.

**Skin** If skin or hair contact occurs remove contaminated clothing and wash contaminated skin and hair with plenty of soap and running water. Wash contaminated clothing before re-use. If irritation occurs seek medical advice.

**Eye** If product comes into physical contact with eyes, hold eyelids apart and flush the eyes immediately with running water for several minutes. Seek medical attention.

**First Aid Facilities** Eye wash and normal washroom facilities.

**Advice to Doctor** Treat symptomatically.

**Other Information** For advice in an emergency contact the Poisons Information Centre, Australia on 131 126.

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## 5. FIRE FIGHTING MEASURES

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**Suitable Extinguishing Media** Use carbon dioxide, dry chemical powder or foam.

**Hazards from Combustion Products** Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

**Specific Hazards** Highly flammable liquid. Vapour/air mixtures may ignite explosively. Precautions should be taken to eliminate the build up of explosive mixtures. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard. Heating can cause expansion or decomposition leading to violent rupture of containers.

**Hazchem Code** 3[Y]E

**Precautions in connection with Fire** Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Water may be used to cool containers to prevent pressure build-up or auto-ignition. Warning: Burning liquid is lighter than water and will float spreading flames as water flows from the site of the fire fighting efforts.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Emergency Procedures** Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. If necessary place inert absorbent onto material. Prevent run off into drains and waterways. Use clean non-sparking tools to collect the material and place into suitable, labelled containers. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling** Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye contact. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Keep containers closed when not in use. Do not empty into drains. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

**Conditions for Safe Storage** Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable national and local regulations.

**Corrosiveness** Not considered corrosive to metals.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**National Exposure Standards** No value is assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC) Australia, however the available exposure limits on the ingredients as provided by NOHSC are as follows:

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Hexane	20	72	-	-

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

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<b>Biological Limit Values</b>	No biological limit allocated.
<b>Engineering Controls</b>	Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430: Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
<b>Eye Protection</b>	Safety glasses with side shields, chemical goggles or face shield recommended as appropriate. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	Wear impervious gloves such as PVC conforming to AS/NZS 2161: Occupational protective gloves.
<b>Personal Protective Equipment</b>	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Clear colourless flammable liquid.
<b>Odour</b>	Not available
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	75-100°C
<b>Solubility in Water</b>	Immiscible
<b>Specific Gravity</b>	0.72
<b>pH Value</b>	Not applicable
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not available
<b>Flash Point</b>	<23°C
<b>Flammability</b>	Highly flammable
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	Not available
<b>Flammable Limits - Upper</b>	Not available

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Conditions to Avoid</b>	Heat, direct sunlight, open flames and other sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the emission of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Hazardous Polymerization</b>	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	No toxicity data are available for this specific product. The toxicity data available for hexane are as follows: LD50 (Oral, Rat): 25,000 mg/kg LC50 (Inhalation, Rat): 48,000 ppm/4h
<b>Inhalation</b>	Danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness
<b>Ingestion</b>	Harmful, may cause lung damage if swallowed. It can cause central nervous system depression, severe abdominal pain, nausea and vomiting that may lead to pulmonary edema. Subsequent to ingestion or vomiting, small amounts of liquid aspirated into the respiratory system may cause severe lung damage or death.
<b>Skin</b>	Irritating to skin. Symptoms may include redness and itchiness. Repeated exposure may cause skin dryness and cracking, and may lead to dermatitis.
<b>Eye</b>	May cause irritation to eyes. Symptoms may include redness, tearing, stinging and blurred vision.
<b>Chronic Effects</b>	Repeated inhalation or dermal exposure to n-hexane can cause peripheral neuropathy in exposed individuals. Recovery is not immediate on cessation of exposure, and the effects may progress for 2-3 months. Final recovery may take more than a year and may not necessarily be complete, depending on the severity of exposure. These effects are associated with n-hexane not the other hexane isomers. Concurrent exposure to n-hexane and methyl ethyl ketone (MEK) will accelerate the onset of n-hexane induced nerve damage, although MEK alone will not cause such damage. Prolonged and repeated skin contact may cause dermatitis due to defatting effect.
<b>Reproductive Toxicity</b>	This substance is classified as toxic to reproduction category 3 by criteria of the National Occupational Health and Safety Commission (NOHSC) Australia: possible risk of impaired fertility.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Persistence / Degradability</b>	Not available
<b>Mobility</b>	Not available
<b>Bioaccumulative Potential</b>	Not available
<b>Environ. Protection</b>	Do not allow product to enter drains, waterways or sewers.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Considerations</b>	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
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## 14. TRANSPORT INFORMATION

<b>Transport Information</b>	This material is classified as a Class 3 (Flammable Liquid) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following: - Class 1, Explosive - Class 2.1, Flammable Gas, if both the Class 3 and Class 2.1 dangerous goods are in bulk - Class 2.3, Toxic Gas - Class 4.2, Spontaneously Combustible Substance - Class 5.1, Oxidising Agent - Class 5.2, Organic Peroxide - Class 6.1, Toxic and Class 6.2 Infectious Substances, if the Class 3 dangerous goods are nitromethane - Class 7, Radioactive Substance
<b>U.N. Number</b>	1993
<b>Proper Shipping Name</b>	FLAMMABLE LIQUID, N.O.S. - (CONTAINS HEXANE)
<b>DG Class</b>	3

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**Hazchem Code** 3[Y]E  
**Packaging Method** 3.8.3RT1  
**Packing Group** II  
**Storage and Transport** Packing Gp II-Dangerous Goods Class 3 - must be stored and transported in accordance with state or Territory dangerous goods regulations. Eliminate any sources of ignition. Material will accumulate static charges which may cause an electrical spark. Use proper grounding procedures.  
**EPG Number** 3A1  
**IERG Number** 14

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## 15. REGULATORY INFORMATION

**Regulatory Information** Australia:  
Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).  
**Poisons Schedule** S5  
**Hazard Category** Harmful,Irritant,Highly Flammable,Dangerous for the environment

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## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** MSDS Reviewed: October 2008  
MSDS supersedes: January 2003  
**Contact Person/Point** DISCLAIMER: The company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside the Company's control. The end user is obliged to conform to relevant government regulations and/or patent laws applicable in their respective States of Countries.  
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