

# Material Safety Data Sheet

DR908BLS BLUE S/B LAM

**Infosafe™** 1HKX7 **Issue Date** January 2008 **Status** ISSUED by BS: 1.9.40  
**No.** NUPLEXIN

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** DR908BLS BLUE S/B LAM

**Product Code** F61711

**Company Name** FGI, division of Nuplex Industries (Aust) Pty Ltd. (ABN 25 000 045 572)

**Address** 14 Clearview Place, BROOKVALE, NSW 2100  
New Zealand: Nuplex Industries Ltd., 12 Industry Rd, Penrose, Auckland

**Emergency Tel.** Australia: 1800 022 037 (24H); New Zealand: 0800 154 666 (24H)

**Telephone/Fax Number** Tel: Australia: (02) 9939 1399; New Zealand: (09) 579 2029  
Fax: Australia: (02) 9938 5826; New Zealand: (09) 525 1618

**Recommended Use** Composites fabrication.

**Other Names** Not Available

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Australia:  
Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
New Zealand:  
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
Classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.  
HSNO Classification:  
3.1C - Substance that is a flammable liquid: Medium hazard.  
6.1C - Substance that is acutely toxic if inhaled.  
6.1D - Substance that is moderate acutely toxic if swallowed.

6.3A - Substance that is irritating to the skin.  
6.4A - Substance that is irritating to the eye.  
6.6B - Substance that is a suspected human mutagen.  
6.7B - Substance that is a suspected human carcinogen.  
6.8B - Substance that is a suspected human reproductive or developmental toxicant.  
6.9A - Substance that is toxic to human target organs or systems.  
9.1A - Substance that is very ecotoxic in the aquatic environment.  
9.3C - Substance that is harmful to terrestrial vertebrates

Hazard statement code:  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H320 Causes eye irritation.  
H331 Toxic if inhaled.  
H341 Suspected of causing genetic defects.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H370 Causes damage to organs.  
H400 Very toxic to aquatic life.  
H433 Harmful to terrestrial vertebrates.

Precautionary statement codes- prevention:  
P102 Keep out of reach of children.  
P103\* Read label before use. - This statement applies only where the substance is available to the general public.  
P104 Read Safety Data Sheet before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement codes- Response:  
P101\* If medical advice is needed, have product container or label at hand. - This statement applies only where the substance is available to the general public.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.  
P331 Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
P362 Take off contaminated clothing and wash before re-use.  
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Precautionary statement codes - Storage:

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Precautionary statement codes - Disposal:

P501 \*In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

**Risk Phrase(s)** R10 Flammable.  
R20 Harmful by inhalation.  
R36/38 Irritating to eyes and skin.

**Safety Phrase (s)** S23 Do not breathe gas/fumes/vapour/spray  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S38 If insufficient ventilation, wear suitable respiratory equipment.  
S24/25 Avoid contact with skin and eyes.  
S37/39 Wear suitable gloves and eye/face protection.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Ingredients	Name	CAS	Proportion
	Quinone and/or phenolic inhibitors	Proprietary	0-0.5 %
	Styrene Monomer	100-42-5	30-60 %
	Polyester resin	Proprietary	30-60 %
	Metal Naphthenates and/or Octoates	Proprietary	0-1 %
	Fumed silica	7631-86-9	0-1.5 %

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### 4. FIRST AID MEASURES

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**Inhalation** Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Apply artificial respiration if not breathing. Seek medical attention.

**Ingestion** Do NOT induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention.

**Skin** Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. If

symptoms develop seek medical attention.

<b>Eye</b>	If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.
<b>First Aid Facilities</b>	Eye wash station, safety shower and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically, aspiration may cause pneumonitis. for advice, contact the Poisons Information Centre (Australia 131 126).

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## 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	Use dry agent or foam.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Specific Hazards</b>	This product is flammable. Vapours are heavier than air and will 'travel' to low-level areas e.g. sumps, drains, etc. and flashback. Precautions should be taken to eliminate the build up of explosive mixtures. Polymerisation may occur at elevated temperatures, such as a fire. If polymerisation occurs in a closed container, violent rupture may result.
<b>Hazchem Code</b>	•3Y
<b>Precautions in connection with Fire</b>	Water spray may be used to keep fire exposed containers cool. Full protective clothing and self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Emergency Procedures</b>	Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear sufficient respiratory protection where required and full protective clothing to minimise skin and eye exposure. If possible contain the spill. Place inert absorbent such as vermiculite, sand or dirt onto material. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Mop up the remaining material and place into the same container. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling** Keep material away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Label containers. Keep containers closed when not in use. Whenever possible, fire-resistant containers should be used. Wear appropriate protective equipment to prevent inhalation, skin and eye contact.

**Conditions for Safe Storage** Store in a cool (below 38°C), dry, well-ventilated area away from sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Always keep in containers made of the same material as the supply container. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Do not stack more than 3 pallets high. 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 State and Federal regulations.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**National Exposure Standards** Australia:  
The following National Occupational Health And Safety Commission (NOHSC) exposure limits apply:

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Styrene	50	213	100	426

New Zealand:  
The following New Zealand Workplace Exposure Standards (OSH) apply:

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Styrene	50	213	100	426

**Other Exposure Information** No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC). However, exposure standards for ingredients are stated above:

As published by the National Occupational Health and Safety Commission (NOHSC):  
As published by the New Zealand Occupational Safety and Health Service (OSH):  
TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.  
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. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

**Engineering Controls** 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 2430.3.1: 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. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
<b>Eye Protection</b>	Safety glasses with side shields, goggles or full faceshield should be worn as described in Australian Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	Wear impervious gloves conforming to AS/NZS 2161: Occupational protective gloves. Laminated film gloves offer good protection for prolonged contact with the liquid. Consult glove suppliers to determine other appropriate glove types and, if necessary, test gloves before use.
<b>Body Protection</b>	Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Clear to hazy tinted liquid.
<b>Odour</b>	Characteristic styrene odour
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	145°C (Styrene)
<b>Solubility in Water</b>	Insoluble.
<b>Specific Gravity</b>	0.95 to 1.15 (water=1) Dependent on non-volatile content.
<b>Vapour Pressure</b>	0.6 kPa at 20°C (Styrene)
<b>Vapour Density (Air=1)</b>	3.6 (air=1) (Styrene)
<b>Evaporation Rate</b>	0.49 (n-butyl acetate=1) (Styrene)
<b>Flash Point</b>	31°C TCC (Styrene)
<b>Flammability</b>	FLAMMABLE. This product should be stored and used in a well ventilated area away from naked flames, heat, sparks and other sources of ignition. Electrically link and ground metal containers for transfers of the product to prevent accumulation of static electricity. Keep the container tightly closed.
<b>Auto-Ignition</b>	

**Temperature** Not available.

**Flammable Limits - Lower** 1.1% (Styrene)

**Flammable Limits - Upper** 6.1% (Styrene)

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## 10. STABILITY AND REACTIVITY

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**Chemical Stability** Stable under normal conditions.

**Conditions to Avoid** Heat, direct sunlight, open flames or other sources of ignition.

**Incompatible Materials** Alkylation catalysts and strong acids (H<sub>2</sub>SO<sub>4</sub>, H<sub>3</sub>PO<sub>4</sub>, BF<sub>3</sub>, AlCl<sub>3</sub>), halogens and hydrogen halides. Contact with copper and copper alloys. Oxidising agents.

**Hazardous Reactions** May react at elevated temperatures and may react with incompatibles.

**Hazardous Polymerization** May occur if contaminated, or at elevated temperatures.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information** No toxicity data available for this product.

**Inhalation** Harmful by inhalation. Inhalation of product vapours will cause irritation of the nose, throat and respiratory system.

**Ingestion** Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Skin** A severe skin irritant. Prolonged contact with skin may cause blistering, and repeated contact may have a defatting effect causing dryness and cracking.

**Eye** Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, redness and possible conjunctivitis.

**Chronic Effects** Continued exposures to levels near 400 ppm can cause respiratory tract irritation; prolonged inhalation of vapours can cause respiratory tract obstruction. Peripheral neuropathy is possible upon long-term exposure to styrene. CNS depression is possible upon long-term exposure to styrene. It is important to note that Styrene is classified as 'possibly carcinogenic to humans' by the International Agency for Research on Cancer (IARC).

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## 12. ECOLOGICAL INFORMATION

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<b>Ecotoxicity</b>	No ecological data available for this product.
<b>Persistence / Degradability</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environment Protection</b>	Prevent this material entering waterways, drains and sewers.

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal Considerations</b>	Dispose of waste according to federal, EPA and state regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature.
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### 14. TRANSPORT INFORMATION

<b>Transport Information</b>	<p>Australia: This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:</p> <ul style="list-style-type: none"> <li>- Class 1, Explosives</li> <li>- Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk</li> <li>- Class 2.3, Toxic Gases</li> <li>- Class 4.2, Spontaneously Combustible Substances</li> <li>- Class 5.1, Oxidising Agents and Class 5.2, Organic Peroxides</li> <li>- Class 6, Toxic Substances (where the flammable liquid is nitromethane)</li> <li>- Class 7, Radioactive Substances.</li> </ul> <p>New Zealand: This material is classified as a Class 3 - Flammable Liquid according to NZS 5433:2007 Transport of Dangerous Goods on Land.</p> <p>Must not be loaded in the same freight container or on the same vehicle with:</p> <ul style="list-style-type: none"> <li>- (Class 1) Explosives</li> <li>- (Class 2.1) Flammable gases</li> <li>- (Class 2.3) Toxic gases</li> <li>- (Class 4.2) Spontaneously combustible substances</li> <li>- (Class 5.1) Oxidising substances</li> <li>- (Class 5.2) Organic peroxides or</li> <li>- (Class 7) Radioactive materials unless specifically exempted.</li> </ul> <p>Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:</p> <ul style="list-style-type: none"> <li>- (Class 4.3) Dangerous when wet substances</li> </ul>
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Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

- (Class 4.2), Spontaneously combustible substances
- (Class 4.3), Dangerous when wet substances
- (Class 5.1), Oxidising substances
- (Class 5.2) Organic peroxides

**U.N. Number** 1866

**Proper Shipping Name** RESIN SOLUTION

**DG Class** 3

**Hazchem Code** .3Y

**Packing Group** III

**EPG Number** 3A1

**IERG Number** 14

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## 15. REGULATORY INFORMATION

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**Regulatory Information** Australia:  
Classified as hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC).  
Poison Schedule: Schedule 5

**Poisons Schedule** S5

**National and or International Regulatory Information** New Zealand:  
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
Group standard:  
Additives, Process Chemicals and Raw Materials (Flammable, Toxic [6.1 + 6.7]) Group Standard 2006  
HSNO Approval Number:  
HSR002498

**Hazard Category** Harmful, Irritant

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS** MSDS Reviewed: January 2008  
MSDS Created: October 2005

**Contact Person/Point** For specialist advice in emergencies: Australia 1800 022 037;  
New Zealand 0800 154 666.

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user

should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Nuplex Industries (Aust) Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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