

MATERIAL SAFETY DATA SHEET

SURECOTE 220 MS (PART A)

Infosafe™ NUP39 **Issue Date** March 2007 **Status** ISSUED by BS: 1.9.12
No. NUPLEXIN

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name SURECOTE 220 MS (PART A)
Product Code B82074
Company Name Nuplex Industries (Aust) Pty Ltd (ABN 25 000 045 572)
Address 49-61 Stephen Road BOTANY
NSW 2019
Emergency Tel. 1800 022 037 (24H)
Telephone/Fax Number Tel: (02) 9839 4000
Fax: (02) 9674 6225
Recommended Use In conjunction with epoxy hardeners for protection of concrete.
Other Names Not Available
Other Information NEW ZEALAND: Nuplex Industries
Ltd.
12 Industry Road, Penrose, Auckland
Phone: (09) 579 2029 Fax: (09) 525 1618
Emergency Advice (NZ): Phone: 0800 154 666

2. HAZARDS IDENTIFICATION

Hazard Classification

Australia:
Classified as Hazardous, according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).
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 Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Classified as Dangerous Goods for transport, according to the NZS 5433:1999 Transport of Dangerous Goods on Land.
HSNO Classification:
3.1C - Flammable Liquid: Medium Hazard
6.1D - Substance that is moderate acutely toxic

- 6.3A - Substance that is irritating to the skin,
 6.4A - Substance that is irritating to the eye
 6.7A - Substance that is a known or presumed 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
 9.1B - Substance that is ecotoxic in the aquatic environment
 9.3C - Substance that is harmful to terrestrial vertebrates

Risk Phrase(s)

- R10 Flammable.
 R43 May cause sensitization by skin contact.
 R20/21 Harmful by inhalation and in contact with skin.
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrase (s)

- S16 Keep away from sources of ignition - No smoking.
 S22 Do not breathe dust.
 S29 Do not empty into drains.
 S38 If insufficient ventilation, wear suitable respiratory equipment.
 S24/25 Avoid contact with skin and eyes.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Bisphenol A Epoxy Resin	25085-99-8	30-60 %
	Inert Filler	14808-60-7	30-60 %
	Xylene	1330-20-7	10-30 %

4. FIRST AID MEASURES

Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion	Do NOT induce vomiting. Wash out mouth with water. Seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.
Eye	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. Seek medical attention.
First Aid Facilities	Eye wash fountains and safety showers should be easily accessible.

Advice to
Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Foam, carbon dioxide or dry chemical.

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

Specific Methods Do not allow extinguishing water to enter drains or waterways.

Specific Hazards This product is flammable. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

Hazchem Code 3 [Y]

Precautions in connection with Fire Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. DO NOT store or use in confined spaces. Do not enter these areas without respiratory protection or until the atmosphere has been checked. Keep tank covered and containers sealed when not in use. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of vapour and mists. Do not use near welding or other ignition sources and avoid sparks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Do not smoke.

When dealing with large quantities, repeated or prolonged exposure without protection should be prevented in order to lessen the possibility of disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage Store in a cool, 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)	FootNote
	Inert Filler			0.1		
	Xylene	655	150	350	80	

Biological Limit Values No biological limit allocated.

Other Exposure Information No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. 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 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, for

further information concerning ventilation requirements.

Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. 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.
Eye Protection	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Coloured liquid.
Odour	Xylene odour.
Melting Point	Not available.
Boiling Point	Not available.
Solubility in Water	Not available.
Specific Gravity	1.70
pH Value	Not available.
Vapour Pressure	Not available.
Vapour Density (Air=1)	Not available.
Volatile Component	10%
Flash Point	24°C (PMCC)

Flammability Flammable liquid.

**Flammable
Limits - Lower** Not available.

**Flammable
Limits - Upper** Not available.

10. STABILITY AND REACTIVITY

**Chemical
Stability** Stable under normal use conditions.

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

**Incompatible
Materials** Not available.

**Hazardous
Decomposition
Products** Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide and phenolics.

**Hazardous
Polymerization** Not available.

11. TOXICOLOGICAL INFORMATION

**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 Harmful in contact with skin. Will cause redness, itching and irritation. This product may cause sensitisation in some individuals.

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

Chronic Effects Harmful: danger of serious damage to health by prolonged exposure through inhalation of sanding dusts. Prolonged or repeated exposure by inhalation may affect the central nervous system. Corneal injury may also occur from repeated exposure.

Mutagenicity Diglycidyl ether of Bisphenol A (Base epoxy resin). Results of mutagenicity tests in animals have been negative. Has been shown to be negative 'in vitro' (test tube) mutagenicity tests and positive in others.

Carcinogenicity Diglycidyl ether of Bisphenol A (Base epoxy resin) that is representative of the current manufacturing process is not believed to be a cancer hazard to humans. Did not cause birth

defects or other adverse effects on the foetus when pregnant rabbits were exposed by skin contact the most likely route of exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available for this material.

**Persistence /
Degradability** Not available.

Mobility Not available.

**Environment
Protection** Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

**Disposal
Considerations** 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.

14. TRANSPORT INFORMATION

**Transport
Information**

Australia:

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, Toxic and Infectious Substances, if the Class 3 dangerous goods are nitromethane
- Class 7, Radioactive Substance

New Zealand:

This material is classified as a Class 3 - Flammable Liquid according to NZS 5433:1999 Transport of Dangerous Goods on Land.

Must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives
- Class 2.1, Flammable gases

- Class 2.3, Toxic gases
 - Class 4.2, Spontaneously combustible substances
 - Class 5.1, Oxidising substances
 - Class 5.2, Organic peroxides or
 - Class 7, Radioactive materials unless specifically exempted.
- 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:
- Class 4.3, Dangerous when wet substances
- 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 1263

Proper Shipping Name PAINT RELATED MATERIAL

DG Class 3

Hazchem Code 3[Y]

Packaging Method 3.8.3RT1

Packing Group III

EPG Number 3C1

IERG Number 14

15. REGULATORY INFORMATION

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 Hazardous Substances (Classification) 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

16. OTHER INFORMATION

**Date of
preparation or
last revision
of MSDS**

MSDS reviewed: March 2007
Supersedes: October 2005

**Contact
Person/Point**

For further information ask for: 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.

End of MSDS

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