

**nuplex** Material Safety Data Sheet

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|------------------------------------------|
| NB9019 NUTECH SUPER WHITE BRUSH FLOWCOAT |
|------------------------------------------|

|                     |            |                    |                    |                      |
|---------------------|------------|--------------------|--------------------|----------------------|
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|                     | <b>No.</b> |                    | <b>Date</b> 2011   | by                   |
|                     |            |                    |                    | NUPLEXIN             |

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Product Name**

NB9019 NUTECH SUPER WHITE BRUSH FLOWCOAT

**Product Code**

C510212

**Company Name**

NUPLEX COMPOSITES a division of Nuplex Industries (Aust) Pty Ltd (ABN 25 000 045 572)

**Address**

49 - 61 Stephen Road, BOTANY NSW 2019

New Zealand: NUPLEX COMPOSITES a division of Nuplex Industries Limited, Level 3 Millennium Centre, 602C Great South Road Ellerslie 1051

NEW ZEALAND

**Emergency Tel.**

Australia: 1800 022 037 (24H)

New Zealand: 0800 154 666 (24H)

**Telephone/Fax Number**

Telephone: Australia: +61 (02) 9839 4000(BH); New Zealand: +64 (09) 583 6500(BH) Fax number: Australia: +61 (02) 9674 6225; New Zealand: +64 (09) 525 3709

**Email**

compliance@nuplex.com.au

**Recommended Use**

Surface coatings

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## 2. HAZARDS IDENTIFICATION

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**Hazard Classification**

Classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

**Risk Phrase(s)**

R10 Flammable.

R20 Harmful by inhalation.

R43 May cause sensitization by skin contact.

R36/38 Irritating to eyes and skin.

**Safety Phrase(s)**

S15 Keep away from heat.

S16 Keep away from sources of ignition - No smoking.

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.

S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Chemical Characterization

Liquid

#### Ingredients

| Name                                       | CAS      | Proportion |
|--------------------------------------------|----------|------------|
| Styrene monomer                            | 100-42-5 | 15-45 %    |
| Methyl methacrylate                        | 80-62-6  | 1-20 %     |
| Ingredients determined not to be hazardous |          | To 100%    |

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### 4. FIRST AID MEASURES

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#### Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

#### Ingestion

Do not induce vomiting. Wash out mouth and lips with water. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.

#### Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

#### Eye

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

#### First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

#### Advice to Doctor

Treat symptomatically.

#### Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.

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### 5. FIRE FIGHTING MEASURES

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#### Suitable Extinguishing Media

carbon dioxide, dry chemical, foam, water fog or water mist.

#### Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

#### Specific Hazards

Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

#### Hazchem Code

•3Y

**Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

**Unsuitable Extinguishing Media**

Do not use water jet.

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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. Evacuate all unprotected personnel. Increase ventilation. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling**

Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in designated areas with local exhaust ventilation, away from sparks, flames and other ignition sources. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers tightly closed. Take precautionary measures against static discharges. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

**Conditions for Safe Storage**

Store in the shade, in a well-ventilated area preferably below 30°C and well away from sources of ignition. This product should be stored away from foodstuffs, strong oxidising agents and other incompatible materials. Handle and store in accordance with applicable local and national regulations for flammable liquids. The product has a limited storage life due to inhibitor depletion and should be used within six months of delivery. Rapid polymerisation resulting in violent rupture of closed containers and possible fire from flammable vapours may be initiated by high temperatures or certain contaminants. Oxidising agents (e.g. organic peroxides), strong acids (e.g. sulphuric acid), ferrous salts present in rust, and some metal halides promote polymerisation. Alkalis reduce the inhibitor concentration and increase the risk of spontaneous polymerisation. Contamination of the product with these substances should be avoided. Exposure to UV radiation (including from light fittings), can initiate slow polymerisation that may continue in a sealed container. 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**

No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC). However, the exposure standards for ingredients are listed as follows:

| Substance           | TWA | STEL              | NOTICES |                   |
|---------------------|-----|-------------------|---------|-------------------|
|                     | ppm | mg/m <sup>3</sup> | ppm     | mg/m <sup>3</sup> |
| Styrene             | 50  | 213               | 100     | 426               |
| Methyl methacrylate | 50  | 208               | 100     | 416               |

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.

'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

#### **Biological Limit Values**

No biological limits allocated.

#### **Engineering Controls**

Provide sufficient ventilation to keep airborne levels below the exposure limits or as low as possible. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to relevant regulations for further information concerning ventilation requirements. Refer to AS 1940 - The storage and handling of flammable and combustible liquids for further information concerning ventilation requirements.

#### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist/dust filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. 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.

#### **Eye Protection**

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

#### **Hand Protection**

Wear gloves of impervious material such as laminated film. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

#### **Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### **Form**

Liquid

#### **Appearance**

Viscous, pigmented or transparent liquid.

#### **Odour**

Aromatic odour

#### **Melting Point**

Not available

#### **Boiling Point**

100°C (for Methyl methacrylate)

#### **Solubility in Water**

Insoluble in water

**Solubility in Organic Solvents**

Miscible with acetone, glycol ethers and toluene.

**Specific Gravity**

1.10 (25°C)

**pH Value**

Not applicable

**Vapour Pressure**

0.6 kPa at 20°C (for Styrene)

**Vapour Density (Air=1)**

3.5 (for Methyl methacrylate)

**Evaporation Rate**

0.49 (n-Butyl acetate=1) (for Styrene)

**Odour Threshold**

0.1 ppm

**Flash Point**

23-33°C (Tag Closed Cup)

**Flammability**

Flammable liquid and vapour.

**Auto-Ignition Temperature**

490°C (for Styrene)

**Flammable Limits - Lower**

1.1% v/v (for Styrene)

**Flammable Limits - Upper**

6.1% v/v (for Styrene)

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## 10. STABILITY AND REACTIVITY

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**Chemical Stability**

Stable under normal conditions of storage and handling.

**Conditions to Avoid**

Heat, open flames and other sources of ignition. Heating may cause a fire or explosion.

**Incompatible Materials**

Alkylation catalysts and strong acids (H<sub>2</sub>S<sub>04</sub>, H<sub>3</sub>P<sub>04</sub>, BF<sub>3</sub>, AlCl<sub>3</sub>), halogens and hydrogen halides. Contact with copper and copper alloys. Oxidising agents.

**Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

**Hazardous Polymerization**

Heat may cause polymerisation with explosive violence.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

Toxicity data for material given below.

**Inhalation**

Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.

**Ingestion**

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

**Skin**

Irritating to skin. May cause an allergic skin reaction. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

**Eye**

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

**Chronic Effects**

Prolonged or repeated skin contact may cause defatting leading to dermatitis. Chronic exposure to this material may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysema and asthma.

**Carcinogenicity**

Styrene is listed as a Group 2B: Possibly carcinogenic to humans according to IARC (International Agency for Research on Cancer).

**Acute Toxicity - Oral**

For Styrene:  
LD50 (Oral, Mouse): 316 mg/kg  
LD50 (Oral, Rat): 2,650 mg/kg

**Acute Toxicity - Dermal**

For Styrene:  
LD50 (Dermal, Rabbit): >5,010 mg/kg

**Acute Toxicity - Inhalation**

For Styrene:  
LC50 (Inhalation, Mouse): 6.8 mg/L  
LC50 (Inhalation, Rat): 2770 ppm/4h

**Eye Irritation**

For Styrene:  
Eye irritation (Rabbit - Standard Draize): Moderate to severe

**Skin Irritation**

For Styrene:  
Skin irritation (Rabbit - Standard Draize): Mild to moderate

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Not available

**Persistence / Degradability**

Readily biodegradable

**Mobility**

Not available Not available

**Bioaccumulative Potential**

Not expected to be bioaccumulative Not available

**Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

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### Disposal Considerations

Dispose of waste according to applicable local and national 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 flammable 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

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### Transport Information

This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)  
Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Division 2.1, Flammable Gases, (Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L.)
- Division 2.3, Toxic Gases
- Division 4.2 Spontaneously Combustible Substances
- Division 5.1 Oxidising Agents and Division 5.2, Organic Peroxides
- Class 6 Toxic or Infectious Substances (where the flammable liquid is nitromethane)
- Class 7 Radioactive Substances.

### U.N. Number

1866

### Proper Shipping Name

RESIN SOLUTION

### DG Class

3

### Packing Group

III

### Hazchem Code

•3Y

### IERG Number

14

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## 15. REGULATORY INFORMATION

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### Regulatory Information

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

### Poisons Schedule

S5

### Hazard Category

Harmful, Irritant, Flammable, Sensitising

### Australia (AICS)

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

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## 16. OTHER INFORMATION

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### Date of preparation or last revision of MSDS

SDS amendment: October 2013

1. Identification of the Material and Supplier

SDS amendment: September 2013

1. Identification of the Material and Supplier SDS amendment: March 2013

1. Identification of the Material and Supplier

SDS amendment: November 2012

1. Identification of the Material and Supplier

MSDS Created: July 2011

### Contact Person/Point

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 the supplier listed in section 1 of the SDS. 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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End of MSDS

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