



1. Identification of the substance/preparation and of the company/undertaking

Product name 421R VARISPEED

Product code 421R

Intended use of the substance/preparation
Intermediate

Supplier DuPont (New Zealand) Ltd.
Street address 98 Kerrs Road, Wiri, Manukau City, Auckland
New Zealand

Telephone (64)-9268-5500
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Date of preparation 2008-08-18

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

| | |
|--|---------------|
| Acute oral toxicity | Category 6.1D |
| Acute dermal toxicity | Category 6.1D |
| Acute inhalation toxicity | Category 6.1D |
| Skin corrosion/irritation | Category 6.3A |
| Serious eye damage/eye irritation | Category 6.4A |
| Carcinogenicity | Category 6.7B |
| Toxicity for reproduction | Category 6.8B |
| Target Organ Systemic Toxicant - Repeated exposure | Category 6.9B |
| Flammable liquids | Category 3.1C |
| Acute aquatic toxicity | Category 9.1B |
| Chronic aquatic toxicity | Category 9.1C |

GHS-Labeling



Hazard symbols

Signal Word

Warning

Hazard Statements

Harmful if inhaled.
Harmful in contact with skin.
Harmful if swallowed.
Causes skin irritation.
Suspected of damaging fertility or the unborn child.
May cause damage to organs.
Suspected of causing cancer.
Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.
Flammable liquid and vapour

Precautionary Statements

Keep container tightly closed.
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.



Ground/Bond container and receiving equipment.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Obtain special instructions before use.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wash hands thoroughly after handling.
Wear protective gloves and eye/face protection.
Wear protective gloves/clothing.
Do NOT induce vomiting.
IF exposed or concerned: Get medical attention/advice.
If eye irritation persists: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs, seek medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
In case of fire: Use .? for extinction.
Specific treatment (see .? on this label).
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local regulation.

Other hazards which do not result in classification

3. Composition/information on ingredients

Pure substance/preparation

Preparation

| CAS-No. | Chemical Name | Concentration | GHS ardous | Haz- |
|------------|---|---------------|---------------|------|
| 123-86-4 | n-butyl acetate | 27 - 37% | ✓ | |
| 763-69-9 | ethyl 3-ethoxypropionate | 16 - 26% | ✓ | |
| 1330-20-7 | xylene | 16 - 26% | ✓ | |
| 95-63-6 | 1,2,4-trimethylbenzene | 5 - 15% | ✓ | |
| 64742-95-6 | solvent naphtha (petroleum), light arom. (<0,1% benzene) | 5 - 15% | ✓ | |
| 108-67-8 | mesitylene | 1 - 4% | ✓ | |
| 100-41-4 | ethylbenzene | 1 - 4% | ✓ | |
| 628-63-7 | pentyl acetate | 1 - 4% | ✓ | |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 1 - 4% | ✓ | |
| 98-82-8 | cumene | 0.1 - 1.0% | ✓ | |
| 77-58-7 | dibutylbis((1-oxododecyl)oxy)stannane | 0.1 - 1.0% | ✓ | |
| 108-88-3 | toluene | 0.1 - 1.0% | ✓ | |

Non-regulated ingredients 1 - 4%

4. First aid measures

Eye contact



Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed**Inhalation**

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion

May result in gastrointestinal distress.

Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician

No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Fire-fighting measures

Suitable extinguishing media

Universal aqueous film-forming foam, Carbon dioxide (CO₂), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons

High volume water jet

Specific hazards

Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Do not allow run-off from fire fighting to enter drains or water courses. Solvent vapours are heavier than air and may spread along floors. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Hazchem Code

3Y

6. Accidental release measures

Personal precautions

Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.



7. Handling and storage

Safe handling advice

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage

Suitable storage conditions

Observe label precautions. Store between 5 and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage

Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits

Workplace Exposure Standards (WESs) 2002

| Chemical Name | | |
|---------------------------------------|------|-----------------------|
| n-butyl acetate | TWA | 150 ppm |
| | TWA | 713 mg/m ³ |
| | STEL | 200 ppm |
| | STEL | 950 mg/m ³ |
| xylene | TWA | 50 ppm |
| | TWA | 217 mg/m ³ |
| 1,2,4-trimethylbenzene | TWA | 25 ppm |
| | TWA | 123 mg/m ³ |
| mesitylene | TWA | 25 ppm |
| | TWA | 123 mg/m ³ |
| ethylbenzene | TWA | 100 ppm |
| | TWA | 434 mg/m ³ |
| | STEL | 125 ppm |
| | STEL | 543 mg/m ³ |
| pentyl acetate | TWA | 100 ppm |
| | TWA | 532 mg/m ³ |
| | TWA | 25 ppm |
| | TWA | 125 mg/m ³ |
| cumene | STEL | 75 ppm |
| | STEL | 375 mg/m ³ |
| | TWA | 0.1 mg/m ³ |
| | STEL | 0.2 mg/m ³ |
| dibutylbis((1-oxododecyl)oxy)stannane | TWA | 0.1 mg/m ³ |
| | STEL | 0.2 mg/m ³ |
| toluene | TWA | 50 ppm |

TWA 188 mg/m³**Engineering measures**

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection

Wear protective eyewear for protection against solvent spatter.

Hand protection

The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

| Chemical Name | Glove material | Glove thickness | Break through time |
|--|----------------|-----------------|--------------------|
| n-butyl acetate | Viton (R) ® | 0.7 mm | 10 min |
| | Nitrile rubber | 0.33 mm | 30 min |
| xylene | Nitrile rubber | 0.33 mm | 30 min |
| | Viton (R) ® | 0.7 mm | 480 min |
| solvent naphtha (petroleum), light arom. (<0,1% benzene) | Viton (R) ® | 0.7 mm | 30 min |

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection

Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

| | |
|----------------|-----------------|
| pH | Not applicable. |
| Freezing point | -74 – -35 °C |



| | | |
|--|------------------------|--------------------|
| Boiling point | 125 – 170 °C | |
| Flash point | 30 °C | |
| Evaporation rate | Slower than Ether | |
| Flammability | | |
| Upper explosion limit | 12.3 % | |
| Lower explosion limit | 0.9 % | |
| Vapour pressure | 7.3 hPa | |
| Solubility | moderate | |
| Vapour density | no data available | |
| Density | 0.89 g/cm ³ | DIN 53217/ISO 2811 |
| Partition coefficient: n-octanol/water | no data available | |
| Autoignition temperature | 345 – 463 °C | DIN 51794 |
| Decomposition temperature | | |
| Viscosity (23 °C) | <20 s | ISO 2431-1993 6 mm |

10. Stability and reactivity

Stability

Stable

Hazardous polymerisation

Will not occur.

Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

Materials to avoid

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Acute oral toxicity

| | |
|--|------------|
| n-butyl acetate | Category 4 |
| ethyl 3-ethoxypropionate | Category 5 |
| xylene | Category 4 |
| 1,2,4-trimethylbenzene | Category 4 |
| solvent naphtha (petroleum), light arom. (<0,1% benzene) | Category 5 |
| ethylbenzene | Category 5 |
| cumene | Category 5 |
| dibutylbis((1-oxododecyl)oxy)stannane | Category 4 |
| toluene | Category 4 |

Acute dermal toxicity

| | |
|--|------------|
| n-butyl acetate | Category 4 |
| ethyl 3-ethoxypropionate | Category 5 |
| xylene | Category 4 |
| 1,2,4-trimethylbenzene | Category 4 |
| solvent naphtha (petroleum), light arom. (<0,1% benzene) | Category 5 |
| ethylbenzene | Category 4 |
| 2-methoxy-1-methylethyl acetate | Category 5 |
| cumene | Category 4 |
| toluene | Category 4 |

Acute inhalation toxicity

| | |
|--|------------|
| n-butyl acetate | Category 4 |
| xylene | Category 4 |
| 1,2,4-trimethylbenzene | Category 4 |
| solvent naphtha (petroleum), light arom. (<0,1% benzene) | Category 5 |
| ethylbenzene | Category 4 |



cumene Category 4
toluene Category 4

% of unknown composition 3.8 %

Skin corrosion/irritation

n-butyl acetate Category 2
ethyl 3-ethoxypropionate Category 3
xylene Category 2
1,2,4-trimethylbenzene Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene) Category 3
mesitylene Category 2
ethylbenzene Category 3
pentyl acetate Category 3
cumene Category 3
toluene Category 2

Serious eye damage/eye irritation

n-butyl acetate Category 2A
xylene Category 2A
1,2,4-trimethylbenzene Category 2A
mesitylene Category 2B
ethylbenzene Category 2B
pentyl acetate Category 2B
2-methoxy-1-methylethyl acetate Category 2A
cumene Category 2B
dibutylbis((1-oxododecyl)oxy)stannane Category 2A
toluene Category 2A

Carcinogenicity

ethylbenzene Category 2

Toxicity for reproduction

ethylbenzene Category 2

Target Organ Systemic Toxicant - Repeated exposure

- **Skin Absorption**

Liver ethylbenzene

- **Inhalation**

Nervous system pentyl acetate

Lungs 1,2,4-trimethylbenzene

- **Ingestion**

Central nervous system cumene

Information on the likely routes of exposure

Inhalation

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion



May result in gastrointestinal distress.

Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Symptoms related to the physical, chemical and toxicological characteristics

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorption, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Delayed and immediate effects and also chronic effects from short and long term exposure:

No information available.

12. Ecological information

Product contains environmentally hazardous substances and product is classified per GHS.

Ecotoxicity effects

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses. Product does not contain any organic halogens.

Acute aquatic toxicity

| | |
|--|------------|
| n-butyl acetate | Category 3 |
| ethyl 3-ethoxypropionate | Category 3 |
| xylene | Category 2 |
| 1,2,4-trimethylbenzene | Category 2 |
| solvent naphtha (petroleum), light arom. (<0,1% benzene) | Category 2 |
| mesitylene | Category 2 |
| ethylbenzene | Category 1 |
| pentyl acetate | Category 3 |
| cumene | Category 2 |
| toluene | Category 3 |

Chronic aquatic toxicity

| | |
|--|------------|
| n-butyl acetate | Category 3 |
| ethyl 3-ethoxypropionate | Category 3 |
| xylene | Category 2 |
| 1,2,4-trimethylbenzene | Category 2 |
| solvent naphtha (petroleum), light arom. (<0,1% benzene) | Category 2 |
| mesitylene | Category 2 |
| ethylbenzene | Category 1 |
| pentyl acetate | Category 3 |
| cumene | Category 2 |
| toluene | Category 3 |

% of unknown composition 4%

Mobility

No information available.

Mobility in soil

No information available.

Biodegradation

No information available.

**Persistence and degradability**

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods:

Dispose of in accordance with local regulations.

Disposal considerations:

A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name: PAINT RELATED MATERIAL

UN-Number: 1263
Hazard Class: 3
Packing group: III
Hazchem Code: 3Y**IMDG (Sea transport)**

Proper shipping name: PAINT RELATED MATERIAL

UN-Number: 1263
Hazard Class: 3
Subsidiary Hazard Class: Not applicable.
Packing group: III
Marine Pollutant: P (solvent naphtha (petroleum), light arom. (<0,1% benzene))
EmS: F-E,S-E**ICAO/IATA (Air transport)**

Proper shipping name: PAINT RELATED MATERIAL

UN-Number: 1263
Hazard Class: 3
Subsidiary Hazard Class: Not applicable.
Packing group: III

15. Regulatory information

National regulatory information

| | |
|--|---------------|
| HSNO Approval Code | HSR002669 |
| HSNO Classification | |
| Acute oral toxicity | Category 6.1D |
| Acute dermal toxicity | Category 6.1D |
| Acute inhalation toxicity | Category 6.1D |
| Skin corrosion/irritation | Category 6.3A |
| Serious eye damage/eye irritation | Category 6.4A |
| Carcinogenicity | Category 6.7B |
| Toxicity for reproduction | Category 6.8B |
| Target Organ Systemic Toxicant - Repeated exposure | Category 6.9B |
| Flammable liquids | Category 3.1C |
| Acute aquatic toxicity | Category 9.1B |
| Chronic aquatic toxicity | Category 9.1C |

16. Other information

Sources of key data used to compile the Safety Data Sheet



Department

DuPont (New Zealand) Ltd.
98 Kerrs Road, Wiri, Manukau City, Auckland
New Zealand

Data Review Department

Regulatory Affairs

Revision Note

1.2 2, 4, 6, 8, 9, 10, 11, 15

Revision Date: 2008-08-15

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