



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

Product name 421R Varispeed

Product code 421R

Intended use of the substance/preparation

Thinner for professional use

Company/Undertaking Identification

Producer/Supplier DuPont Australia Ltd
Street/Box 7 Eden Park Drive
Nat.-Code/Postal code/City Macquarie Park NSW 2113, Australia
Telephone (02) 9923 6111
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Product Information

Telephone (02) 9923 6111

Emergency Information

Medical Emergency Phone 1800 674 415
Transportation Emergency Phone (02) 9923 6275

For further information, please also consult our Internet site

<http://www.dupont.com>

2. Hazards identification

Hazardous Substance. Dangerous Goods.

Human health hazards

Classification : Harmful; Irritant; dangerous for the environment; Flammable;
Flammable. Harmful by inhalation and in contact with skin. Irritating to respiratory system and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

Special hazard instructions for humans and environment

Do not breathe vapour.

Wear suitable protective clothing and gloves.

In case of insufficient ventilation, wear suitable respiratory equipment.

3. Composition/information on ingredients

Chemical characterization

mixture of solvents

Hazardous components

CAS-No.	Chemical Name	Concentration	Classification
123-86-4	n-butyl acetate	25.00 - < 35.00 %	R10 R66 R67
763-69-9	ethyl 3-ethoxypropionate	15.00 - < 20.00 %	R52
1330-20-7	xylene	15.00 - < 20.00 %	R10 Xn; R20/21 Xi; R38



CAS-No.	Chemical Name	Concentration	Classification
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	10.00 - < 12.50 %	R10 Xi; R37 N; R51/53 Xn; R65 R66 R67 NotaH NotaP
95-63-6	1,2,4-trimethylbenzene	7.00 - < 10.00 %	R10 Xn; R20 Xi; R36/37/38 N; R51/53
100-41-4	ethylbenzene	3.00 - < 5.00 %	F; R11 Xn; R20
628-63-7	pentyl acetate	3.00 - < 5.00 %	R66 R10
624-41-9	2-methylbutyl acetate	2.00 - < 2.50 %	R10 R66
108-67-8	mesitylene	1.00 - < 2.00 %	R10 Xi; R37 N; R51/53
108-65-6	2-methoxy-1-methylethyl acetate	1.00 - < 2.00 %	R10 Xi; R36
103-65-1	n-propylbenzene	0.50 - < 1.00 %	R10 Xn; R65 Xi; R37 N; R51/53
98-82-8	cumene	0.25 - < 0.50 %	R10 Xn; R65 Xi; R37 N; R51/53
77-58-7	dibutylbis((1-oxododecyl)oxy)stannane	0.20 - < 0.25 %	Xi; R36/38 Xn; R48/22 N; R50/53

Additional advice

See full text of R-phrases in chapter 16.

4. First aid measures

General advice

When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.

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.

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.

Eye contact

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

Ingestion

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

5. Fire-fighting measures

Hazardous combustion products

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

Fire and Explosion Hazards

Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition.

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

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.

Additional advice

Cool closed containers exposed to fire with water spray.

Additional information

Hazchem : 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. For personal protection see section 8. Comply with the health and safety at work laws. If material is a coating, do not sand, flame cut, braze or weld dry coating without an appropriate respirator or appropriate ventilation, and gloves.

Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Storage**Requirements for storage areas and containers**

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.

**Advice on common storage**

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

8. Exposure controls/personal protection**Additional technical information on the plant**

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.

National occupational exposure limits

CAS-No.	Chemical Name	Values	Control Parameters	Basis
123-86-4	n-butyl acetate	STEL	950 mg/m ³	NOHSC:1003(2003)
			200 ppm	NOHSC:1003(2003)
		TWA	713 mg/m ³	NOHSC:1003(2003)
			150 ppm	NOHSC:1003(2003)
763-69-9	ethyl 3-ethoxypropionate			no exposure standard allocated
1330-20-7	xylene	STEL	655 mg/m ³	NOHSC:1003(2003)
			150 ppm	NOHSC:1003(2003)
		TWA	350 mg/m ³	NOHSC:1003(2003)
		80 ppm	NOHSC:1003(2003)	
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)			no exposure standard allocated
95-63-6	1,2,4-trimethylbenzene	TWA	25 ppm	NOHSC:1003(2003)
100-41-4	ethylbenzene	STEL	543 mg/m ³	NOHSC:1003(2003)
			125 ppm	NOHSC:1003(2003)
		TWA	434 mg/m ³	NOHSC:1003(2003)
		100 ppm	NOHSC:1003(2003)	
628-63-7	pentyl acetate	STEL	541 mg/m ³	NOHSC:1003(2003)
			100 ppm	NOHSC:1003(2003)
		TWA	270 mg/m ³	NOHSC:1003(2003)
		50 ppm	NOHSC:1003(2003)	
624-41-9	2-methylbutyl acetate	STEL	100 ppm	NOHSC:1003(2003)
		TWA	50 ppm	NOHSC:1003(2003)
108-67-8	mesitylene	TWA	25 ppm	NOHSC:1003(2003)
108-65-6	2-methoxy-1-methylethyl acetate	STEL	822 mg/m ³	NOHSC:1003(2003)
			150 ppm	NOHSC:1003(2003)
		TWA	274 mg/m ³	NOHSC:1003(2003)
		50 ppm	NOHSC:1003(2003)	
103-65-1	n-propylbenzene			no exposure standard allocated
98-82-8	cumene	STEL	375 mg/m ³	NOHSC:1003(2003)
			75 ppm	NOHSC:1003(2003)
		TWA	125 mg/m ³	NOHSC:1003(2003)
		25 ppm	NOHSC:1003(2003)	
77-58-7	dibutylbis((1-oxododecyl)oxy)stannane	STEL	0.2 mg/m ³	NOHSC:1003(2003)
		TWA	0.1 mg/m ³	NOHSC:1003(2003)

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.

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.

Eye protection

Wear protective eyewear for protection against solvent spatter.

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!

Environmental exposure controls

Do not let product enter drains. For ecological information refer to section 12.

9. Physical and chemical properties

Appearance

Form: liquid Colour: clear

Important physical and chemical information

	Value	Method
Flash point	30 °C	
Autoignition temperature	345 – 463 °C	DIN 51794
Boiling point/boiling range	125 – 170 °C	
Lower explosion limit	0.9 %	
Upper explosion limit	12.3 %	
Vapour pressure	7.6 hPa	
Relative density	0.89 g/cm ³	DIN 53217/ISO 2811
Water solubility	moderate	
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm
Solvent separation test	< 3%	ADR/RID
Content of volatile components (including water)	99.8%	Basis Vapour pressure >= 0.01 kPa
pH	Not applicable.	

10. Stability and reactivity

Stability

Stable

**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**General observations**

There is no data available on the product. See sections 3 and 15 for details.

Practical experience

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.

Toxicity Test Type	Value	Time	Species
n-butyl acetate			
Oral LD50	> 5,000 ml/kg		rat
Dermal LD50	> 5,000 ml/kg		rabbit
Inhalation LC50	> 6,335 ppm	4 h	rat
ethyl 3-ethoxypropionate			
Oral LD50	4.3 g/kg		Female Rat
Dermal LD50	4.92 ml/kg		rat
Inhalation LC50	> 1,000 ppm	6 h	rat
xylene			
Oral LD50	4,300 mg/kg		rat
Dermal LD50	> 1,700 mg/kg		rabbit
Inhalation LC50	5,000 ppm	4 h	rat
solvent naphtha (petroleum), light arom. (<0,1% benzene)			
Oral LD50	< 5 g/kg		rat
Dermal LD50	> 4 ml/kg		rat
Inhalation LD50	> 3,670 mg/kg	8 h	rat
1,2,4-trimethylbenzene			
Oral LD50	5,000 mg/kg		rat
Inhalation LC50	18,000 mg/m ³	4 h	rat
ethylbenzene			
Oral LD50	3,500 mg/kg		rat
Dermal LD50	17.8 g/kg		rabbit
Inhalation LC50	4,000 ppm	4 h	rat
pentyl acetate			
Oral LD50	19.7 ml/kg		rat
Dermal LD50	8,300 mg/kg		guinea pig
mesitylene			
Oral LD50	24,000 mg/kg		rat
Inhalation LC50	24 mg/l	4 h	rat
2-methoxy-1-methylethyl acetate			
Oral LD50	8.5 g/kg		Female Rat
Dermal LD50	> 5 g/kg		rabbit
Inhalation LC50	> 4,345 ppm	6 h	Male Rat
n-propylbenzene			
Oral LD50	6,040 mg/kg		rat
Inhalation LD50	> 9,999 ppm	2 h	rat
cumene			
Oral LD50	1,400 mg/kg		rat
Dermal LD50	10,578 mg/kg		rabbit
Inhalation LC50	39 mg/l	4 h	rat
dibutylbis((1-oxododecyl)oxy)stannane			
Oral LD50	> 2,000 mg/kg		rat



12. Ecological information

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

Acute toxicity aquatic invertebrates

Chemical Name	Species	Type	Exposure time	Value	Method
ethyl 3-ethoxypropionate solvent	Daphnia	LC50	4 days	100	μ l
naphtha (petroleum), light arom. (<0,1% benzene)	Daphnia	EC50	24 h	170	mg/l
1,2,4-trimethylbenzene	Daphnia	LC50	48 h	6	mg/l
mesitylene	Daphnia	EC50	48 h	6	mg/l
n-propylbenzene	Daphnia	EC50	24 h	2	mg/l
cumene	Daphnia	EC50	24 h	1.4	mg/l
dibutylbis((1-oxododecyl)oxy)stannane	Daphnia	EC50	48 h	1	mg/m3

Acute and extended toxicity of fishes

Chemical Name	Species	Type	Exposure time	Value	Method
ethyl 3-ethoxypropionate solvent	Pimephales promelas (fathead minnow)	LC50	4 days	65	μ l
naphtha (petroleum), light arom. (<0,1% benzene)	Brachydanio rerio (zebra fish)	LC50	96 h	10	mg/l
1,2,4-trimethylbenzene	Oncorhynchus mykiss (rainbow trout)	EC50	96 h	9.22	mg/l
mesitylene	Carassius auratus (goldfish)	LC50	96 h	12.5	mg/l
cumene	Oncorhynchus mykiss (rainbow trout)	LC50	96 h	2.7	mg/l
dibutylbis((1-oxododecyl)oxy)stannane	Leuciscus idus (Golden orfe)	LC50	0	2	mg/l
dibutylbis((1-oxododecyl)oxy)stannane	Brachydanio rerio (zebra fish)	LC50	96 h	3.1	mg/l

Toxicity with aquatic plants

Chemical Name	Species	Type	Exposure time	Value	Method
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Algae	EC50	72 h	10	mg/l
cumene	green algae (type not specified)	IC50	72 h	2.6	mg/l

Mobility

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.



13. Disposal considerations

Incinerate or otherwise dispose of waste material in accordance with local regulations. The product should not be allowed to enter drains, water courses or the soil. Do not incinerate in closed containers.

14. Transport information

Transport in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classifications, Packaging and Labeling), ADG for road, IMDG for sea and ICAO/IATA for air transport.

ADG (Land transport)

Proper shipping name: PAINT RELATED MATERIAL

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

Symbol and indication of hazard.

Xn	Harmful
Contains	n-butyl acetate 25.00 - < 35.00 %; xylene 15.00 - < 20.00 %; solvent naphtha (petroleum), light arom. (<0,1% benzene) 10.00 - < 12.50 %.

R-phrases)

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R37/38	Irritating to respiratory system and skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

S-phrases)

S23	Do not breathe vapour.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.

SUSDP Poison Schedule:



Schedule 5

New Zealand Poison Schedule:

Schedule 3

16. Other information

Full text of R phrases with no. appearing in section 3

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Sources of key data used to compile the datasheet:

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition (NOHSC:2011(2003))
2. Approved Criteria for Classifying Hazardous Substances (NOHSC:1008(1999))
3. List of Designated Hazardous Substances (NOHSC:10005(1999))
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment (NOHSC:1003(1995))
5. Australian Dangerous Goods Code, No. 6 (National Road Transport Commission)
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)
7. National Code of Practice for the Labelling of Workplace Substances ((NOHSC:2012 (1994))

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Report version

1.8 3, 7, 8, 9, 12, 15

Revision Date: 2009-01-05