

## 1. Identification of the substance/mixture and of the company/undertaking

<b>Product name</b>	304S Low Gloss Vinyl Binder
<b>Product code</b>	304S
<b>Intended use of the substance/preparation</b>	
Coating for professional use	
<b>Supplier</b>	DuPont (New Zealand) Ltd.
Street address	98 Kerrs Road, Wiri, Manukau City, Auckland New Zealand
Telephone	(64)-9268-5500
Telefax	(64)-9268-5490
Emergency telephone	NZ Poisons Information Centre Ph: 0800 764 766
Date of preparation	date

## 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 6.1E
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
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 - Single exposure	Category 6.9A
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9A
Flammable liquids	Category 3.1B
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

Endpoints which are "not classified", "cannot classified" and "not applicable" are not shown

### GHS-Labeling



Hazard symbols

Signal word **Danger**

Hazard statements  
 May be harmful if inhaled.  
 May be harmful in contact with skin.  
 May be harmful if swallowed.  
 Causes skin irritation.  
 Causes serious eye irritation.  
 Suspected of damaging fertility or the unborn child.  
 Causes damage to organs.  
 Suspected of causing cancer.  
 Toxic to aquatic life.  
 Toxic to aquatic life with long lasting effects.  
 Highly 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.  
Wash hands after handling.  
Wear protective gloves and eye/face protection.  
IF exposed: Call a POISON CENTER or doctor/physician.  
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: Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If skin irritation occurs, seek medical advice/attention.  
Immediately call a POISON CENTER or doctor/physician.  
Specific treatment (see supplemental first aid instructions 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**

May produce an allergic reaction.

### 3. Composition/information on ingredients

**Pure substance/mixture**

Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
67-64-1	acetone	20 - 30%	✓
123-86-4	n-butyl acetate	10 - 20%	✓
78-93-3	butanone	10 - 20%	✓
8032-32-4	low boiling point naphtha (<0,1% benzene)	10 - 20%	✓
1330-20-7	xylene	5 - 10%	✓
112926-00-8	Amorphous silica - precipitated	3 - 5%	✓
142-82-5	heptane (mixture of isomers)	3 - 5%	✓
1119-40-0	pentanedioic acid, dimethyl ester	1 - 3%	✓
100-41-4	ethylbenzene	1 - 3%	✓
108-88-3	toluene	1 - 3%	✓
110-54-3	n-hexane	0.1 - 0.3%	✓
9002-88-4	polyethylene	0.1 - 0.3%	✓

Non-regulated ingredients 10 - 20%

### 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 (CO<sub>2</sub>), 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**

3YE

## 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

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

**National occupational exposure limits****Workplace Exposure Standards (WESs) 2002**

Chemical Name		
acetone	TWA	500 ppm
	TWA	1,185 mg/m <sup>3</sup>
	STEL	1,000 ppm
	STEL	2,375 mg/m <sup>3</sup>
n-butyl acetate	TWA	150 ppm
	TWA	713 mg/m <sup>3</sup>
	STEL	200 ppm
	STEL	950 mg/m <sup>3</sup>
butanone	TWA	150 ppm
	TWA	445 mg/m <sup>3</sup>
	STEL	300 ppm
	STEL	890 mg/m <sup>3</sup>
xylene	TWA	50 ppm
	TWA	217 mg/m <sup>3</sup>
Amorphous silica - precipitated	TWA	10 mg/m <sup>3</sup>
heptane (mixture of isomers)	TWA	400 ppm
	TWA	1,640 mg/m <sup>3</sup>
	STEL	500 ppm
	STEL	2,050 mg/m <sup>3</sup>
ethylbenzene	TWA	100 ppm
	TWA	434 mg/m <sup>3</sup>
	STEL	125 ppm



Chemical Name		
	STEL	543 mg/m3
toluene	TWA	50 ppm
	TWA	188 mg/m3
n-hexane	TWA	20 ppm
	TWA	72 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
butanone	Viton (R) ®	0.7 mm	10 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 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    Odour: Characteristic Paint Odor    Odor Threshold : no data available



pH	Not applicable.	
Freezing point	-86 – -35 °C	
Boiling point	56 °C	
Flash point	-15 °C	
Evaporation rate	Slower than Ether	
Flammability		
Upper explosion limit	12.8 %	
Lower explosion limit	0.9 %	
Vapour pressure	90.1 hPa	
Solubility	appreciable	
Vapour density	no data available	
Density	0.87 g/cm <sup>3</sup>	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	215 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

## 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

### 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.

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

#### Acute oral toxicity

acetone	Category 5
butanone	Category 5
low boiling point naphtha (<0,1% benzene)	Category 5
xylene	Category 5
heptane (mixture of isomers)	Category 5
ethylbenzene	Category 5
toluene	Category 4
n-hexane	Category 5
polyethylene	Category 4

**Acute dermal toxicity**

acetone	Category 5
low boiling point naphtha (<0,1% benzene)	Category 5
Amorphous silica - precipitated	Category 5
heptane (mixture of isomers)	Category 5
pentanedioic acid, dimethyl ester	Category 5
ethylbenzene	Category 4
toluene	Category 4
n-hexane	Category 5
polyethylene	Category 4

**Acute inhalation toxicity**

acetone	Category 5
low boiling point naphtha (<0,1% benzene)	Category 5
heptane (mixture of isomers)	Category 5
pentanedioic acid, dimethyl ester	Category 4
ethylbenzene	Category 4
toluene	Category 4
n-hexane	Category 5

% of unknown composition 2.2 %

**Skin corrosion/irritation**

acetone	Category 3
n-butyl acetate	Category 2
butanone	Category 3
xylene	Category 2
heptane (mixture of isomers)	Category 2
ethylbenzene	Category 3
toluene	Category 2
n-hexane	Category 2
polyethylene	Category 1B

**Serious eye damage/eye irritation**

acetone	Category 2B
butanone	Category 2A
xylene	Category 2B
heptane (mixture of isomers)	Category 2A
pentanedioic acid, dimethyl ester	Category 2A
ethylbenzene	Category 2B
toluene	Category 2A
n-hexane	Category 2A

**Carcinogenicity**

ethylbenzene Category 2

**Toxicity for reproduction**

ethylbenzene Category 2  
n-hexane Category 2

**Target Organ Systemic Toxicant - Single exposure****• Skin Absorption**

**Narcotic effects** heptane (mixture of isomers)

**Central nervous system** xylene

**• Inhalation**

**Respiratory tract irritation** n-butyl acetate, acetone, butanone, heptane (mixture of isomers), ethylbenzene



**airway sensitivity** heptane (mixture of isomers)  
**Nervous system** acetone  
**Narcotic effects** acetone, heptane (mixture of isomers)  
**Lungs** n-butyl acetate  
**Kidney** butanone  
**Central nervous system** n-butyl acetate, butanone, ethylbenzene

- **Ingestion**

**Respiratory tract irritation** butanone  
**Kidney** butanone  
**Central nervous system** butanone

**Target Organ Systemic Toxicant - Repeated exposure**

- **Skin Absorption**

**Liver** heptane (mixture of isomers), ethylbenzene  
**Blood** acetone

- **Inhalation**

**Central nervous system** butanone

- **Ingestion**

**Peripheral nervous system** butanone  
**Central nervous system** butanone

**Numerical measures of toxicity (acute toxicity estimation (ATE),etc. )**

No information available.

**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.

## 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.

**Acute aquatic toxicity**

n-butyl acetate	Category 3
low boiling point naphtha (<0,1% benzene)	Category 2
xylene	Category 2
heptane (mixture of isomers)	Category 2
ethylbenzene	Category 1
toluene	Category 3
n-hexane	Category 2

**Chronic aquatic toxicity**

n-butyl acetate	Category 4
xylene	Category 3
heptane (mixture of isomers)	Category 1
pentanedioic acid, dimethyl ester	Category 4
ethylbenzene	Category 4



toluene Category 4  
n-hexane Category 2

% of unknown composition 46.7%

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility in soil**

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

UN-Number: 1263

Hazard Class: 3

Packing group: II

Hazchem Code: 3YE

**IMDG (Sea transport)**

Proper shipping name: PAINT

UN-Number: 1263

Hazard Class: 3

Subsidiary Hazard Class: Not applicable.

Packing group: II

Marine Pollutant: N

EmS: F-E,S-E

**ICAO/IATA (Air transport)**

Proper shipping name: PAINT

UN-Number: 1263

Hazard Class: 3

Subsidiary Hazard Class: Not applicable.

Packing group: II

**Matters needing attention for transportation**

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

## 15. Regulatory information

**National regulatory information**

HSNO Approval Code	HSR002669
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Acute oral toxicity	Category 6.1E
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Carcinogenicity	Category 6.7B
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Target Organ Systemic Toxicant - Single exposure	Category 6.9A
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9A
Flammable liquids	Category 3.1B
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

**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  
Issuing date

Regulatory Affairs  
date

## Revision Note

Version	Changes
1.0	

Revision Date: 2009-10-15

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 above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.