

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

Product name	AM03 Micro White
Product code	AM03
Intended use of the substance/preparation Coating for professional use	
Supplier	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

Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Respiratory sensitization	Category 6.5A
Skin sensitization	Category 6.5B
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 6.9B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1D

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

GHS-Labeling

Hazard symbols	
Signal word	Danger
Hazard statements	Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. Toxic to aquatic life. May cause long lasting harmful effects to aquatic life. Flammable liquid and vapour.
Precautionary statements	Contaminated work clothing should not be allowed out of the workplace. 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. In case of inadequate ventilation wear respiratory protection. 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 experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
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: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.
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

Contains: methyl methacrylate; n-butyl methacrylate; 2-hydroxyethyl acrylate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture

Mixture

CAS-No.	Chemical Name	Concentration	GHS	Haz- ardous
13463-67-7	Titanium dioxide	30 - 40%		
1330-20-7	xylene	20 - 30%	✓	
123-86-4	n-butyl acetate	5 - 10%	✓	
100-41-4	ethylbenzene	5 - 10%	✓	
1344-28-1	Aluminum oxide (Al ₂ O ₃)	3 - 5%	✓	
80-62-6	methyl methacrylate	0.3 - 1.0%	✓	
97-88-1	n-butyl methacrylate	0.3 - 1.0%	✓	
628-63-7	pentyl acetate	0.3 - 1.0%	✓	
1314-23-4	Zirconium oxide	0.3 - 1.0%	✓	
818-61-1	2-hydroxyethyl acrylate	0.1 - 0.3%	✓	
108-88-3	toluene	0.1 - 0.3%	✓	

Non-regulated ingredients 20 - 30%

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. If this product mixed with an isocyanate activator/hardener (see MSDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

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. If this product is mixed with an isocyanate, skin contact may cause sensitization.

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

Handling

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.

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		
Titanium dioxide	TWA	10 mg/m ³
xylene	TWA	50 ppm
	TWA	217 mg/m ³
n-butyl acetate	TWA	150 ppm
	TWA	713 mg/m ³
	STEL	200 ppm
	STEL	950 mg/m ³
ethylbenzene	TWA	100 ppm
	TWA	434 mg/m ³
	STEL	125 ppm
	STEL	543 mg/m ³
Aluminum oxide (Al ₂ O ₃)	TWA	2 mg/m ³
methyl methacrylate	TWA	50 ppm
	TWA	208 mg/m ³
	STEL	100 ppm
	STEL	416 mg/m ³
pentyl acetate	TWA	100 ppm
	TWA	532 mg/m ³
Zirconium oxide	TWA	5 mg/m ³



Chemical Name

	STEL	10 mg/m3
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
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 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: white Odour: Characteristic Paint Odor Odor Threshold : no data available

pH	Not applicable.
Freezing point	-74 – -35 °C
Boiling point	125 °C
Flash point	23 °C



Evaporation rate	Slower than Ether	
Flammability		
Upper explosion limit	7.6 %	
Lower explosion limit	1 %	
Vapour pressure	3.7 hPa	
Solubility	partly miscible	
Vapour density	no data available	
Density	1.33 g/cm ³	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	370 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	49 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

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. If this product mixed with an isocyanate activator/hardener (see MSDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

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

not hazardous

Acute dermal toxicity

not hazardous

Acute inhalation toxicity

not hazardous

**Skin corrosion/irritation**

xylene	Category 2
n-butyl acetate	Category 2
ethylbenzene	Category 3
methyl methacrylate	Category 2
n-butyl methacrylate	Category 2
pentyl acetate	Category 3
2-hydroxyethyl acrylate	Category 1C
toluene	Category 2

Serious eye damage/eye irritation

xylene	Category 2B
ethylbenzene	Category 2B
methyl methacrylate	Category 2A
n-butyl methacrylate	Category 2A
pentyl acetate	Category 2B
Zirconium oxide	Category 2A
2-hydroxyethyl acrylate	Category 1
toluene	Category 2A

Respiratory sensitization

methyl methacrylate	Category 1
n-butyl methacrylate	Category 1

Skin sensitization

methyl methacrylate	Category 1
n-butyl methacrylate	Category 1
2-hydroxyethyl acrylate	Category 1

Carcinogenicity

ethylbenzene	Category 2
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Toxicity for reproduction

ethylbenzene	Category 2
methyl methacrylate	Category 2

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

Narcotic effects methyl methacrylate

Central nervous system xylene

• Inhalation

Respiratory tract irritation n-butyl acetate, methyl methacrylate, Aluminum oxide (Al₂O₃)

Lungs n-butyl acetate

Central nervous system n-butyl acetate

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

Spleen n-butyl methacrylate

Central nervous system methyl methacrylate

• Inhalation

Lungs Aluminum oxide (Al₂O₃)

Respiratory system methyl methacrylate

**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 resorbtion, 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

xylene	Category 2
n-butyl acetate	Category 3
ethylbenzene	Category 1
methyl methacrylate	Category 3
n-butyl methacrylate	Category 3
pentyl acetate	Category 3
2-hydroxyethyl acrylate	Category 1
toluene	Category 3

Chronic aquatic toxicity

xylene	Category 3
n-butyl acetate	Category 4
ethylbenzene	Category 4
toluene	Category 4

% of unknown composition 0%

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: III
Hazchem Code: 3Y

IMDG (Sea transport)

Proper shipping name: PAINT

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

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 Classification	
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Respiratory sensitization	Category 6.5A
Skin sensitization	Category 6.5B
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 6.9B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1D

16. Other information

Sources of key data used to compile the Safety Data Sheet
DepartmentDuPont (New Zealand) Ltd.
98 Kerrs Road, Wiri, Manukau City, Auckland
New ZealandData Review Department
Issuing dateRegulatory Affairs
date

Revision Note



Version	Changes
1.0	

Revision Date: 2009-10-06

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.