

Safety Data Sheet

According to HSNO

Initial preparation date: 05.22.2018

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Revision date: 10.11.2018

POR PATCH BLACK

SECTION 1: Identification

Product identifier

Product name: POR PATCH BLACK

Product code: 49013

Additional information: No additional information available.



Recommended use of the product and restriction on use:

Relevant identified uses: Sealant & Adhesive

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

P.O.R. Products
38 Portman Road
New Rochelle, NY 10801
914-636-0700

Supplier:

RA Johnstone & Co Ltd trading as
RJP Performance
33 Ha Crescent,
Wiri, Auckland 2104
+64 9 25000 91 / sales@raj.co.nz

Emergency telephone number:

ChemTel Inc.

+1 813 248 0585

Poisons Information Center, New Zealand

0800 764 766

SECTION 2: Hazards identification

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2017

HSNO Classification or Subclasses – Physical hazards:

Class	GHS Category	HSNO Category
Flammable liquids	Category 4	3.1D

HSNO Classification or Subclasses – Health hazards:

Class	GHS Category	HSNO Category
Eye irritation	Category 2A	6.4A
Skin irritation	Category 2	6.3A
Skin sensitization	Category 1	6.5B
Respiratory sensitization	Category 1	6.5A
Aspiration hazard	Category 1	6.1E
Acute toxicity (inhalation)	Category 4	6.1D
Specific target organ toxicity - single exposure	Category 3, respiratory irritation	6.9B
Specific target organ toxicity - repeated exposure	Category 1	6.9A
Carcinogenicity	Category 1A	6.7A

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HSNO Classification or Subclasses – Environmental hazards:

Class	GHS Category	HSNO Category
None Known	None Known	None Known

GHS classification:

Flammable liquids, category 4
Eye irritation, category 2A
Skin irritation, category 2
Skin sensitization, category 1
Respiratory sensitization, category 1
Aspiration hazard, category 1
Acute toxicity (inhalation), category 4
Specific target organ toxicity - single exposure, category 3, respiratory irritation
Specific target organ toxicity - repeated exposure, category 1
Carcinogenicity, category 1A

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements and Precautionary statements:

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H227 Combustible liquid.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H350 May cause cancer.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P264 Wash skin thoroughly after handling.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P284 Wear respiratory protection.
P285 In case of inadequate ventilation wear respiratory protection.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink or smoke when using this product.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P281 Use personal protective equipment as required.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use appropriate fire extinguishing methods for extinction.

P337+P313 If eye irritation persists get medical advice/attention

P321 Specific treatment (see first aid instructions on this label).

P362 Take off contaminated clothing and wash before reuse

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention

P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell

P308+P313 If exposed or concerned: Get medical advice/attention

P405 Store locked up.

P403+P233 Store in a well ventilated place. Keep container tightly closed.

P501 Dispose of contents/container according to local regulations

Hazards not otherwise classified:

None known.

SECTION 3: Composition/information on ingredients

Mixture:

Identification	Name	Weight %
CAS number: 5873-54-1	O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'-diisocyanate	10-20
CAS number: 95-63-6	1, 2, 4-Trimethylbenzene	<5
CAS number: 1330-20-7	Xylene	<0.5
CAS number: 1333-86-4	Carbon Black	5-10
CAS number: 64742-95-6	Solvent naphtha (petroleum), light arom.	10-15
CAS number: 13463-67-7	Titanium Dioxide	5-10

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CAS number: 14808-60-7	Silica, crystalline quartz	<0.5
CAS number: 101-68-8	4,4'-Methylenediphenyl diisocyanate	10-20
CAS number: 98-82-8	Cumene	<0.5
CAS number: 99784-49-3	1,2-Propanediol, polymer with 1,1'-methylenebis[isocyanatobenzene] and 2-methyloxirane	37.4-48.1

Additional information:

None known

SECTION 4: First-aid measures

For advice, contact a Poisons Information Center (e.g. phone Australia 131 126, New Zealand 0800 764 766) or a doctor.

Description of first aid measures

General notes:

Get medical attention if you feel unwell

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position. Maintain an unobstructed airway.

Get medical advice/attention if you feel unwell.

Take precautions to ensure your own safety.

Remove source of exposure or move person to fresh air.

Get medical advice if you feel unwell or concerned.

After skin contact:

Rinse affected area with soap and water.

If symptoms develop or persist, seek medical attention.

Take off all contaminated clothing.

Gently blot or brush away excess product.

Wash with plenty of lukewarm, gently flowing water.

Get medical advice if skin irritation occurs or you feel unwell.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

If symptoms develop or persist, seek medical attention.

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open.

Remove contact lenses, if present and easy to do so.

Continue rinsing for 15-20 minutes.

Get medical advice if eye irritation persists.

After swallowing:

Rinse mouth thoroughly.

Seek medical attention if irritation, discomfort, or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Acute symptoms and effects:

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May cause breathing difficulty, asthma attack, nausea, allergic reaction

Delayed symptoms and effects:

Not determined or not available.

Immediate medical attention and special treatment:

Specific treatment:

Adhesive and sealant

Notes for the doctor:

Contains isocyanates, consult literature for specific treatment.

Workplace Facilities:

Not determined or not available.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use a water stream as an extinguisher.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Shut off sources of ignition.

Carbon monoxide and carbon dioxide may form upon combustion.

Heating causes a rise in pressure, risk of bursting and combustion.

Hazchem or Emergency Action Code:

Hazchem: NA

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Ensure air handling systems are operational.

Wear protective eye wear, gloves and clothing.

Environmental precautions:

Should not be released into the environment.

Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing.

Use spark-proof tools and equipment.

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal

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binders).

Dispose of contents / container in accordance with local regulations.

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage precautions

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Take precautionary measures against electrostatic discharges.

Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

Safe packaging material

Suitable material:

Not determined or not applicable.

Unsuitable material:

Not determined or not applicable.

SECTION 8: Exposure controls and personal protection

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
New Zealand	Xylene	1330-20-7	TWA: 50 ppm. TWA: 217 mg/m ³
	Carbon Black	1333-86-4	TWA: 3 mg/m ³
	Titanium Dioxide	13463-67-7	TWA: 10 mg/m ³
	Silica, crystalline quartz	14808-60-7	TWA: 0.1 mg/m ³ (Respirable dust)
	Cumene	98-82-8	TWA: 25 ppm. TWA: 125 mg/m ³ STEL: 175 ppm. STEL: 375 mg/m ³

Biological limit value:

Substance	Identifier	Determinant	Sampling time	Permissible limits
Xylene	1330-20-7	Methylhippuric acid	End of shift.	1.5 g/L

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be

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required to confirm compliance with an OEL and adequacy of exposure controls

Biological monitoring may also be appropriate for some substances

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Appearance	White/Black Colored Heavy Paste
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	176°F (80°C)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not miscible.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.

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Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

VOC Content	116 g/L (US EPA Method 24A)
Recommended Storage Temperature	50°F - 95°F
Recommended Shelf Life	3 Years Un-Opened

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Keep away from heat, sparks and flames.

Incompatible materials:

None known.

Hazardous decomposition

products:None known.

SECTION 11: Toxicological information

Acute toxicity:

Assessment: Harmful if inhaled

Product data: No data available.

Substance data:

Name	Route	Result
4,4'-Methylenediphenyl diisocyanate	inhalation	LC50 - Rat - 369 mg/cu m/4 h
Xylene	dermal	LD50 - Rat - > 1,700 mg/kg
	inhalation	LC50 - Rat - 5,000 ppm/4 h
1, 2, 4-Trimethylbenzene	inhalation	LC50 - Rat - 18,000 mg/m ³

Skin corrosion/irritation:

Assessment: Causes skin irritation

Product data: No data available.

Substance data:

Name	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'-diisocyanate	Irritating to the skin.
4,4'-Methylenediphenyl diisocyanate	Irritating to the skin.
Xylene	Irritating to the skin.

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1, 2, 4-Trimethylbenzene	Irritating to the skin.
1,2-Propanediol, polymer with 1,1'-Methylene bis[isocyanatobenz ene] and 2-methyloxirane	Causes skin irritation.

Serious eye damage/irritation:

Assessment: Causes serious eye irritation

Product data: No data available.

Substance data:

Name	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'- diisocyanate	Irritating effect on the eyes.
4,4'-Methylenediphenyl diisocyanate	Moderate eye irritation.
1, 2, 4-Trimethylbenzene	Irritating effect on the eyes.
1,2-Propanediol, polymer with 1,1'-Methylene bis[isocyanatobenz ene] and 2-methyloxirane	Causes serious eye irritation.

Respiratory or skin sensitization:

Assessment: May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled

Product data: No data available.

Substance data:

Name	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'- diisocyanate	Sensitization possible through skin and respiratory contact.
4,4'-Methylenediphenyl diisocyanate	May cause sensitization by inhalation and skin contact.
Cumene	No skin irritation
	No eye irritation
1,2-Propanediol, polymer with 1,1'-methylene bis[isocyanatobenz ene] and 2-methyloxirane	May cause an allergic skin reaction.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity

Assessment: May cause cancer

Product data: No data available.

Substance data:

Name	Species	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'- diisocyanate	O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'- diisocyanate	Suspected of causing cancer.
4,4'-Methylenediphenyl diisocyanate		May cause cancer.
Titanium Dioxide		Airborne, unbound particles of respirable size are known to cause cancer.
Silica, crystalline quartz	Silica, crystalline quartz	Airborne particles of respirable size are known to cause cancer.
Solvent naphtha (petroleum), light arom.	Solvent naphtha (petroleum), light arom.	Component may cause cancer.
Carbon Black	Carbon Black	The IARC carcinogenic classification and California Proposition 65 Warning only

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		apply to airborne, unbound particles of respirable size of Carbon Black.
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International Agency for Research on Cancer (IARC):

Name	Classification
Titanium Dioxide	Group 2B
Silica, crystalline quartz	Group 1 - Carcinogenic to humans
Xylene	Group 3 - Not classifiable as to its carcinogenicity to humans
Cumene	Group 2B - Possibly carcinogenic to humans
Carbon Black	Group 2B - Possibly carcinogenic to humans

National Toxicology Program (NTP):

Name	Classification
Silica, crystalline quartz	Known to be human carcinogens

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Naphtha (petroleum), hydrotreated heavy	May cause genetic defects.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Specific target organ toxicity (single exposure)

Assessment: May cause respiratory irritation

Product data: No data available.

Substance data:

Name	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'- diisocyanate	May cause respiratory tract irritation through single or repeated exposure.
4,4'-Methylenediphenyl diisocyanate	Component affects the respiratory system through single and repeated exposure.
Silica, crystalline quartz	Component affects the lungs through repeated exposure.
Cumene	Component affects the respiratory system.
1, 2, 4-Trimethylbenzene	Component affects the respiratory system.
1,2-Propanediol, polymer with 1,1'- Methylene bis[isocyanatobenz ene] and 2- methyloxirane	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment: Causes damage to organs through prolonged or repeated exposure

Product data: No data available.

Substance data:

Name	Result
1,2-Propanediol, polymer with 1,1'- Methylene bis[isocyanatobenz ene] and 2-methyloxirane	May cause damage to the respiratory tract through prolonged or repeated exposure.

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Aspiration toxicity

Assessment: May be fatal if swallowed and enters airways

Product data: No data available.

Substance data:

Name	Result
Solvent naphtha (petroleum), light arom.	May be fatal if swallowed and enters airway.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Harmful to aquatic life.

Product data: No data available.

Substance data:

Name	Result
Cumene	EC50 - Daphnia magna - 1.4 mg/L - 24 h LC50 - Pimephales promelas - 6.32 mg/L - 96 h
1, 2, 4-Trimethylbenzene	LC50 - Pimephales promelas - 7.72 mg/L - 96 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Hazard to the ozone layer

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

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It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

SECTION 14: Transportation information

Road/Rail transport: (NZS 5433:1999)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
EmS number	
Stowage category	
Excepted quantities	
Limited quantity	

International Air Transport Association Dangerous Goods Regulations (IATA-ICAO)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
ERG code	
Excepted quantities	
Passenger and cargo	
Cargo aircraft only	
Limited quantity	
Additional Information	No additional data

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Transport in bulk according to Annex II of MARPOL and the IBC Code: No additional data

SECTION 15: Regulatory information

New Zealand Inventory of Chemicals (NZIoC):

5873-54-1	O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'-diisocyanate	Listed
95-63-6	1, 2, 4-Trimethylbenzene	Listed
1330-20-7	Xylene	Listed
1333-86-4	Carbon Black	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Listed
13463-67-7	Titanium Dioxide	Listed
14808-60-7	Silica, crystalline quartz	Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
98-82-8	Cumene	Listed
99784-49-3	1,2-Propanediol, polymer with 1,1'- methylenebis[isocyanatobenzene] and 2-methyloxirane	Listed

HSNO Classification or Subclasses:

Class	GHS Category	HSNO Category
Eye irritation	Category 2A	6.4A
Skin irritation	Category 2	6.3A
Skin sensitization	Category 1	6.5B
Respiratory sensitization	Category 1	6.5A
Aspiration hazard	Category 1	6.1E
Acute toxicity (inhalation)	Category 4	6.1D
Specific target organ toxicity - single exposure	Category 3, respiratory irritation	6.9B
Specific target organ toxicity - repeated exposure	Category 1	6.9A
Carcinogenicity	Category 1A	6.7A

HSNO Group Standard Name :	HSNO Approval Number:
Surface Coatings and Colourants (Toxic [6.7])	HSR002679

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SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial preparation date: 08/16/2018

Revision Date: 10.11.2018

Additional information:

Version 1.3

End of Safety Data Sheet

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SECTION 1: Identification

Product identifier

Product name: POR PATCH WHITE

Product code: 49023

Additional information: No additional information available.



Recommended use of the product and restriction on use:

Relevant identified uses: Sealant & Adhesive

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

P.O.R. Products
38 Portman Road
New Rochelle, NY 10801
914-636-0700

Supplier:

RA Johnstone & Co Ltd trading as
RJP Performance
33 Ha Crescent
Wiri, Auckland 2104
+64 9 25000 91 / sales@raj.co.nz

Emergency telephone number:

ChemTel Inc.

+1 813 248 0585

Poisons Information Center, New Zealand

0800 764 766

SECTION 2: Hazards identification

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2017

HSNO Classification or Subclasses – Physical hazards:

Class	GHS Category	HSNO Category
Flammable liquids	Category 4	3.1D

HSNO Classification or Subclasses – Health hazards:

Class	GHS Category	HSNO Category
Eye irritation	Category 2A	6.4A
Skin irritation	Category 2	6.3A
Skin sensitization	Category 1	6.5B
Respiratory sensitization	Category 1	6.5A
Aspiration hazard	Category 1	6.1E
Acute toxicity (inhalation)	Category 4	6.1D
Specific target organ toxicity - single exposure	Category 3, respiratory irritation	6.9B
Specific target organ toxicity - repeated exposure	Category 1	6.9A
Carcinogenicity	Category 1A	6.7A

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HSNO Classification or Subclasses – Environmental hazards:

Class	GHS Category	HSNO Category
None Known	None Known	None Known

GHS classification:

Eye irritation, category 2A
Flammable liquids, category 4
Skin irritation, category 2
Skin sensitization, category 1
Respiratory sensitization, category 1
Aspiration hazard, category 1
Acute toxicity (inhalation), category 4
Specific target organ toxicity - single exposure, category 3, respiratory irritation
Specific target organ toxicity - repeated exposure, category 1
Carcinogenicity, category 1A

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements and Precautionary statements:

H227 Combustible liquid.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H350 May cause cancer.
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash skin thoroughly after handling.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P284 Wear respiratory protection.
P285 In case of inadequate ventilation wear respiratory protection.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink or smoke when using this product.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

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P281 Use personal protective equipment as required.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use appropriate fire extinguishing methods for extinction.

P337+P313 If eye irritation persists get medical advice/attention

P321 Specific treatment (see first aid instructions on this label).

P362 Take off contaminated clothing and wash before reuse

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention

P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell

P308+P313 If exposed or concerned: Get medical advice/attention

P405 Store locked up.

P403+P233 Store in a well ventilated place. Keep container tightly closed.

P501 Dispose of contents/container according to local regulations

Hazards not otherwise classified:

None known.

SECTION 3: Composition/information on ingredients

Mixture:

Identification	Name	Weight %
CAS number: 5873-54-1	O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'-diisocyanate	10-20
CAS number: 95-63-6	1, 2, 4-Trimethylbenzene	<5
CAS number: 1330-20-7	Xylene	<0.5
CAS number: 1333-86-4	Carbon Black	5-10
CAS number: 64742-95-6	Solvent naphtha (petroleum), light arom.	10-15
CAS number: 13463-67-7	Titanium Dioxide	5-10
CAS number: 14808-60-7	Silica, crystalline quartz	<0.5

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CAS number: 101-68-8	4,4'-Methylenediphenyl diisocyanate	10-20
CAS number: 98-82-8	Cumene	<0.5
CAS number: 99784-49-3	1,2-Propanediol, polymer with 1,1'-methylenebis[isocyanatobenzene] and 2-methyloxirane	37.4-48.1

Additional information:

None known

SECTION 4: First-aid measures

For advice, contact a Poisons Information Center (e.g. phone Australia 131 126, New Zealand 0800 764 766) or a doctor.

Description of first aid measures

General notes:

Get medical attention if you feel unwell

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position. Maintain an unobstructed airway.

Get medical advice/attention if you feel unwell.

Take precautions to ensure your own safety.

Remove source of exposure or move person to fresh air.

Get medical advice if you feel unwell or concerned.

After skin contact:

Rinse affected area with soap and water.

If symptoms develop or persist, seek medical attention.

Take off all contaminated clothing.

Gently blot or brush away excess product.

Wash with plenty of lukewarm, gently flowing water.

Get medical advice if skin irritation occurs or you feel unwell.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

If symptoms develop or persist, seek medical attention.

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open.

Remove contact lenses, if present and easy to do so.

Continue rinsing for 15-20 minutes.

Get medical advice if eye irritation persists.

After swallowing:

Rinse mouth thoroughly.

Seek medical attention if irritation, discomfort, or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Acute symptoms and effects:

May cause breathing difficulty, asthma attack, nausea, allergic reaction.

Delayed symptoms and effects:

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Not determined or not available.

Immediate medical attention and special treatment:

Specific treatment:

Adhesive and sealant

Notes for the doctor:

Contains isocyanates, consult literature for specific treatment.

Workplace Facilities:

Not determined or not available.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use a water stream as an extinguisher.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Shut off sources of ignition.

Carbon monoxide and carbon dioxide may form upon combustion.

Heating causes a rise in pressure, risk of bursting and combustion.

Hazchem or Emergency Action Code:

Hazchem: NA

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Ensure air handling systems are operational.

Wear protective eye wear, gloves and clothing.

Environmental precautions:

Should not be released into the environment.

Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing.

Use spark-proof tools and equipment.

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders).

Dispose of contents / container in accordance with local regulations.

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Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage precautions

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Take precautionary measures against electrostatic discharges.

Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

Safe packaging material

Suitable material:

Not determined or not applicable.

Unsuitable material:

Not determined or not applicable.

SECTION 8: Exposure controls and personal protection

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
New Zealand	Xylene	1330-20-7	TWA: 50 ppm. TWA: 217 mg/m ³
	Carbon Black	1333-86-4	TWA: 3 mg/m ³
	Titanium Dioxide	13463-67-7	TWA: 10 mg/m ³
	Silica, crystalline quartz	14808-60-7	TWA: 0.1 mg/m ³ (Respirable dust)
	Cumene	98-82-8	TWA: 25 ppm. TWA: 125 mg/m ³ STEL: 175 ppm. STEL: 375 mg/m ³

Biological limit value:

Substance	Identifier	Determinant	Sampling time	Permissible limits
Xylene	1330-20-7	Methylhippuric acid	End of shift.	1.5 g/L

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls

Biological monitoring may also be appropriate for some substances

Appropriate engineering controls:

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Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Appearance	White/Black Colored Heavy Paste
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	176°F (80°C)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not miscible.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.

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Oxidizing properties

Not determined or not available.

Other information

VOC Content	116 g/L (US EPA Method 24A)
Recommended Storage Temperature	50°F - 95°F
Recommended Shelf Life	3 Years Un-Opened

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Keep away from heat, sparks and flames.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity:

Assessment: Harmful if inhaled

Product data: No data available.

Substance data:

Name	Route	Result
4,4'-Methylenediphenyl diisocyanate	inhalation	LC50 - Rat - 369 mg/cu m/4 h
Xylene	dermal	LD50 - Rat - > 1,700 mg/kg
	inhalation	LC50 - Rat - 5,000 ppm/4 h
1, 2, 4-Trimethylbenzene	inhalation	LC50 - Rat - 18,000 mg/m ³

Skin corrosion/irritation:

Assessment: Causes skin irritation

Product data: No data available.

Substance data:

Name	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'- diisocyanate	Irritating to the skin.
4,4'-Methylenediphenyl diisocyanate	Irritating to the skin.
Xylene	Irritating to the skin.
1, 2, 4-Trimethylbenzene	Irritating to the skin.
1,2-Propanediol, polymer with 1,1'-Methylene bis[isocyanatobenz ene] and 2-methyloxirane	Causes skin irritation.

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Serious eye damage/irritation:

Assessment: Causes serious eye irritation

Product data: No data available.

Substance data:

Name	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'-diisocyanate	Irritating effect on the eyes.
4,4'-Methylenediphenyl diisocyanate	Moderate eye irritation.
1, 2, 4-Trimethylbenzene	Irritating effect on the eyes.
1,2-Propanediol, polymer with 1,1'-Methylene bis[isocyanatobenz ene] and 2-methyloxirane	Causes serious eye irritation.

Respiratory or skin sensitization:

Assessment: May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled

Product data: No data available.

Substance data:

Name	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'-diisocyanate	Sensitization possible through skin and respiratory contact.
4,4'-Methylenediphenyl diisocyanate	May cause sensitization by inhalation and skin contact.
Cumene	No skin irritation
	No eye irritation
1,2-Propanediol, polymer with 1,1'-methylene bis[isocyanatobenz ene] and 2-methyloxirane	May cause an allergic skin reaction.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity

Assessment: May cause cancer

Product data: No data available.

Substance data:

Name	Species	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'-diisocyanate	O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'-diisocyanate	Suspected of causing cancer.
4,4'-Methylenediphenyl diisocyanate		May cause cancer.
Titanium Dioxide		Airborne, unbound particles of respirable size are known to cause cancer.
Silica, crystalline quartz	Silica, crystalline quartz	Airborne particles of respirable size are known to cause cancer.
Solvent naphtha (petroleum), light arom.	Solvent naphtha (petroleum), light arom.	Component may cause cancer.
Carbon Black	Carbon Black	The IARC carcinogenic classification and California Proposition 65 Warning only apply to airborne, unbound particles of respirable size of Carbon Black.

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International Agency for Research on Cancer (IARC):

Name	Classification
Titanium Dioxide	Group 2B
Silica, crystalline quartz	Group 1 - Carcinogenic to humans
Xylene	Group 3 - Not classifiable as to its carcinogenicity to humans
Cumene	Group 2B - Possibly carcinogenic to humans
Carbon Black	Group 2B - Possibly carcinogenic to humans

National Toxicology Program (NTP):

Name	Classification
Silica, crystalline quartz	Known to be human carcinogens

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Naphtha (petroleum), hydrotreated heavy	May cause genetic defects.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Specific target organ toxicity (single exposure)

Assessment: May cause respiratory irritation

Product data: No data available.

Substance data:

Name	Result
O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'-diisocyanate	May cause respiratory tract irritation through single or repeated exposure.
4,4'-Methylenediphenyl diisocyanate	Component affects the respiratory system through single and repeated exposure.
Silica, crystalline quartz	Component affects the lungs through repeated exposure.
Cumene	Component affects the respiratory system.
1, 2, 4-Trimethylbenzene	Component affects the respiratory system.
1,2-Propanediol, polymer with 1,1'- Methylene bis[isocyanatobenz ene] and 2- methyloxirane	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment: Causes damage to organs through prolonged or repeated exposure

Product data: No data available.

Substance data:

Name	Result
1,2-Propanediol, polymer with 1,1'- Methylene bis[isocyanatobenz ene] and 2-methyloxirane	May cause damage to the respiratory tract through prolonged or repeated exposure.

Aspiration toxicity

Assessment: May be fatal if swallowed and enters airways

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Product data: No data available.

Substance data:

Name	Result
Solvent naphtha (petroleum), light arom.	May be fatal if swallowed and enters airway.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Harmful to aquatic life.

Product data: No data available.

Substance data:

Name	Result
Cumene	EC50 - Daphnia magna - 1.4 mg/L - 24 h
	LC50 - Pimephales promelas - 6.32 mg/L - 96 h
1, 2, 4-Trimethylbenzene	LC50 - Pimephales promelas - 7.72 mg/L - 96 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Hazard to the ozone layer

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

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SECTION 14: Transportation information

Road/Rail transport: (NZS 5433:1999)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
EmS number	
Stowage category	
Excepted quantities	
Limited quantity	

International Air Transport Association Dangerous Goods Regulations (IATA-ICAO)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
ERG code	
Excepted quantities	
Passenger and cargo	
Cargo aircraft only	
Limited quantity	
Additional Information	No additional data

Transport in bulk according to Annex II of MARPOL and the IBC Code: No additional data

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SECTION 15: Regulatory information

New Zealand Inventory of Chemicals (NZIoC):

5873-54-1	O-(p-isocyanatobenzyl)phenyl isocyanate diphenylmethane-2,4'- diisocyanate	Listed
95-63-6	1, 2, 4-Trimethylbenzene	Listed
1330-20-7	Xylene	Listed
1333-86-4	Carbon Black	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Listed
13463-67-7	Titanium Dioxide	Listed
14808-60-7	Silica, crystalline quartz	Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
98-82-8	Cumene	Listed
99784-49-3	1,2-Propanediol, polymer with 1,1'- methylenebis[isocyanatobenzene] and 2-methyloxirane	Listed

HSNO Classification or Subclasses:

Class	GHS Category	HSNO Category
Eye irritation	Category 2A	6.4A
Skin irritation	Category 2	6.3A
Skin sensitization	Category 1	6.5B
Respiratory sensitization	Category 1	6.5A
Aspiration hazard	Category 1	6.1E
Acute toxicity (inhalation)	Category 4	6.1D
Specific target organ toxicity - single exposure	Category 3, respiratory irritation	6.9B
Specific target organ toxicity - repeated exposure	Category 1	6.9A
Carcinogenicity	Category 1A	6.7A

HSNO Group Standard Name :	HSNO Approval Number:
Surface Coatings and Colourants (Toxic [6.7])	HSR002679

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SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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Additional information:

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End of Safety Data Sheet