

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** PUROCOL EXPRESS

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Adhesive.

**Details of Manufacturer or Importer:**

Soudal Australia Pty Ltd  
Unit 1, 29 Prince William Drive  
Seven Hills NSW 2147

**Phone Number:** 02 8678 7449

**Emergency telephone number:** 1300 507 011

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

**Signal Word** Danger

**Hazard Statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P284 Wear respiratory protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

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P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P312	Call a POISON CENTER/doctor if you feel unwell.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

### Chemical Characterization: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

### Hazardous Components:

101-68-8	4,4'-methylenediphenyl diisocyanate	>10-<25%
	 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	

## 4 . FIRST AID MEASURES

### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

### Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Do not apply neutralising agents. Seek medical attention if symptoms occur.

### Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralising agents. Seek medical attention if symptoms occur.

### Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

### Symptoms Caused by Exposure:

Inhalation: May cause irritation of the of the nasal mucous membranes and respiratory tract, dry/sore throat, coughing and runny nose.

Skin Contact: Causes skin irritation and tingling.

Eye Contact: Causes irritation of the eye tissue.

Ingestion: May cause irritation of the gastrointestinal tract.

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## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide, BC powder, polyvalent foam or water spray.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include carbon monoxide, carbon dioxide and nitrous vapours. Reacts slowly with water releasing carbon dioxide.

**Special Protective Equipment and Precautions for Fire Fighters:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved self-contained breathing apparatus in the pressure demand mode or a positive pressure air-supplied respirator, solvent resistant gloves, protective clothing, apron and boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and scoop solid spill into closing containers. Containers must not be sealed hermetically. Provide adequate ventilation. Decontaminate spill area with acetone.

## 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours/dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from heat. Keep away from strong oxidising agents, acids, alkalis, alcohols, amines and water. Suitable packaging material is polyethylene.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:**

**101-68-8 4,4'-methylenediphenyl diisocyanate**

NES	STEL: 0.07 mg/m <sup>3</sup> TWA: 0.02 mg/m <sup>3</sup> Sen, as -NCO
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**Engineering Controls:**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below the limits.

**Respiratory Protection:**

If high airborne concentrations of the isocyanates are present and minimising exposure by ventilation is not possible, air-line respirators or self-contained breathing apparatus complying with Australian Standard AS 1716 must be used.

**Skin Protection:**

Polyethylene gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and

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permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

## Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

<b>Form:</b>	Paste
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	> 165 °C
<b>Flammability:</b>	Not determined.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Relative Density:</b>	1.1
<b>Vapour Density:</b>	>2
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Insoluble

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Reacts slowly with water releasing carbon dioxide.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Heat.

**Incompatible Materials:** Strong oxidizing and reducing agents, acids, alkalis, alcohol, amines and water.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrous vapours.

## 11 . TOXICOLOGICAL INFORMATION

### Toxicity:

#### LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:

#### 101-68-8 4,4'-methylenediphenyl diisocyanate

Oral	LD <sub>50</sub>	>2000 mg/kg (mouse)
Dermal	LD <sub>50</sub>	>9400 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /1 h	>2240 mg/m <sup>3</sup> (rat)

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**Acute Health Effects****Inhalation:**

May cause irritation of the of the nasal mucous membranes and respiratory tract, dry/sore throat, coughing and runny nose.

**Skin:** Causes skin irritation and tingling.

**Eye:** Causes irritation of the eye tissue.

**Ingestion:** May cause irritation of the gastrointestinal tract.

**Skin Corrosion / Irritation:** Causes skin irritation.

**Serious Eye Damage / Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitisation:**

Sensitization possible through inhalation. Sensitization possible through skin contact. May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:**

Suspected of causing cancer.

4,4'-Methylenediphenyl diisocyanate is classified by Safe Work Australia as Carcinogen Category 3.

4,4'-Methylenediphenyl diisocyanate is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:**

Repeated or prolonged skin exposure may skin rash and inflammation.

Inhalation of high vapour concentrations or prolonged exposure may cause feeling of weakness, coughing, respiratory difficulties and possible inflammation of the respiratory tract.

**Existing Conditions Aggravated by Exposure:** Pre-existing allergies, eye, skin and respiratory disorders.

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available on finished product.

**Aquatic toxicity:****101-68-8 4,4'-methylenediphenyl diisocyanate**

EC<sub>50</sub>/24 h 129.7 mg/l (daphnia)

EC<sub>50</sub>/3 h >100 mg/l (activated sludge inhibition)

EC<sub>50</sub>/72 h >1640 mg/l (algae)

LC<sub>50</sub>/96 h >1000 mg/l (fish)

**Persistence and Degradability:** Not easily biodegradable

**Bioaccumulative Potential:** Not determined

**Mobility in Soil:** Not determined

**Other adverse effects:**

Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect.

Ozone-depleting potential (ODP)

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Not classified as dangerous for the ozone layer.

**13 . DISPOSAL CONSIDERATIONS****Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

**14 . TRANSPORT INFORMATION****UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated**Marine pollutant:** No information available**15 . REGULATORY INFORMATION****Australian Inventory of Chemical Substances:**

101-68-8 4,4'-methylenediphenyl diisocyanate

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 6

**16 . OTHER INFORMATION****Creation Date:** 03.03.2015**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

**Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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