



<b>Trade name:</b> Universal No-Tape SP 304-12T
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**SECTION 1: Product and company identification****Product identifier:****Product Name:** Universal No-Tape SP 304-12T**Other means of identification:****Product Code Number:** None known**Recommended use of the chemical and restrictions on use:****Recommended use:** Thermal Barrier Polymer Part "B"**Recommended restrictions:** Uses other than as recommended above.**Details of manufacture or importer:****Manufacturer:** Azon  
**Company Address:** 2204 Ravine Road,  
Kalamazoo 49004, MI, USA  
**Company Telephone:** 269-385-5942**ASIA OFFICE:** Azon Asia Inc.  
168 Joongwon Ind Rd. Judeok  
Chungju, South Korea, CB 27459 KOR**Importer:** Altus NZ Ltd  
Pukete Industrial Estate  
53-69 Maui Street  
Terapa Hamilton NZ2001 NZL**Emergency phone number:** CHEMTREC  
NZ 0800 425 459 (24/7)  
NZ Local +64 9-801 0034  
US 1-800-424-9300 (24/7)  
INT: +1-703-527-3887 (24/7)**SECTION 2: Hazard(s) identification****Classification of the hazardous chemical:**Skin Irritation - Category 2  
Eye Irritation - Category 2  
Carcinogenicity – Category 2  
Specific Target Organ Toxicity - Single Exposure - Category 2  
Hazardous to the aquatic environment chronic - Category 2  
Terrestrial Vertebrate Ecotoxicity - Category 2**Label elements, including precautionary statements:**

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**GHS Signal word:**

**DANGER.**

**GHS Hazard statement(s):**

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H351 - Suspected of causing cancer  
H371 - May cause damage to organs (Oral, Kidneys)  
H411 - Toxic to aquatic life with long lasting effects  
H432 - Toxic to terrestrial vertebrates.

**GHS Hazard symbol(s):**



**GHS Precautionary statement(s):**

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 – Do not breathe dust/fume/gas/mist/ vapours/spray
- P264 - Wash thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment
- P280 - Wear protective gloves / protective clothing / eye protection / face protection.

**Response:**

- P302+P352 - IF ON SKIN: Wash with plenty of water
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 - IF exposed or concerned: IF exposed or concerned: Call a POISON CENTER/ doctor.
- P321 - Specific treatment (see sections 4 to 8 on this SDS and any further information on the label).
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention
- P362+P364 - Take off contaminated clothing and wash it before reuse.
- P391 - Collect spillage.

**Storage:**

- P405 - Store locked up.

**Disposal:**

- P501 - Dispose of contents/container to an approved disposal site in accordance with local/regional/national/international regulations.

**Other hazards which do not result in classification:**

None known.

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## SECTION 3: Composition and information on ingredients

### Mixture:

Chemical name	CAS#	Concentration (weight %)
Glycerol, propoxylated	25791-96-2	10 – 20%
Diethylene Glycol-phthalic Anhydride Polymer	32472-85-8	10 – 20%
Diethylene glycol	111-46-6	10 – 20%
Dipropylene Glycol	25265-71-8	5 – 10%
Diethyl toluene diamine	68479-98-1	5 – 10%
Ethylene Glycol	107-21-1	1 – 5%
Carbon Black	1333-86-4	1 – 5%
N-[2-(Dimethylamino) ethyl]-N,N",N"-trimethyl-1,2-ethanediamine	3030-47-5	1 – 5%

The balance of the ingredients is not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of Hazardous Substances (Hazard Classification) Notice 2020.

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret due to the proprietary nature of some of the components.

## SECTION 4: First-aid measures

### Description of necessary first aid measures:

**Inhalation:** Remove to fresh air. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may administer oxygen. Keep affected person warm and at rest. Obtain medical attention

**Skin contact:** Wash with plenty of water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

**Eye contact:** In case of eye contact, remove contact lenses and rinse immediately with plenty of water, including under the eyelids, for at least 15 mins. Get medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

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**Symptoms caused by exposure:** Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause damage to the kidneys when swallowed.

**Medical attention and special treatment:** If any symptoms are observed, contact a physician and give them this SDS sheet.

## SECTION 5: Fire-fighting measures

**Suitable extinguishing equipment:** Not combustible. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide as suitable for surrounding materials.

**Unsuitable extinguishing media:** Do not use direct streams of water.

### **Specific hazards arising from the chemical:**

Not expected to be flammable.

Hazardous combustion products include CO (Carbon Monoxide), CO<sub>2</sub> (Carbon Dioxide), toxic and irritating gases.

### **Special protective equipment and precautions for fire fighters:**

Avoid breathing irritating and potentially toxic fumes. Fire-fighters should wear self-contained breathing apparatus and protective clothing. Fight fire from a protected location. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Equipment should be decontaminated after use.

### **HAZCHEM Code:**

Not applicable. Not hazardous for transport.

## SECTION 6: Spillage, accidental release measures

### **Personal precautions, protective equipment and emergency procedures:**

Protect people. Isolate area to prevent exposure to chemicals. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid contact with skin and eyes. Stop leak if it can be done safely. Wash exposed body areas thoroughly after handling. Wear appropriate protective equipment, such as gloves, goggles and protective clothing, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### **Methods and materials for containment and cleaning up:**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7: Handling and storage

**Precautions for safe handling:** Avoid breathing vapours, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep out of the reach of children. Keep away from food

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and drinks. Wear appropriate protective equipment, such as gloves, goggles and protective clothing, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Conditions for safe storage, including any incompatibles:** Keep product in a dry, cool place. Keep away from incompatible materials (see Section 10) and food / feedstuffs. Protect container(s) against physical damage, heat and moisture. Do not allow material to contaminate ground water system. Prevent product from entering drains.

## SECTION 8: Exposure controls and personal protection

### Control parameters – exposure standards, biological monitoring

Substance	New Zealand - Workplace Exposure Limits	
	TWA (8 hour)	STEL (15 min)
Glycerol, propoxylated	None known	None known
Diethylene Glycol-phthalic Anhydride Polymer	None known	None known
Diethylene glycol	23 ppm TWA 101 mg/m <sup>3</sup> TWA	None known
Dipropylene Glycol	None known	None known
Diethyl toluene diamine	None known	None known
Ethylene Glycol	50 ppm Ceiling (mist and vapour) 127 mg/m <sup>3</sup> Ceiling (mist and vapour)	None known
Carbon Black	3 mg/m <sup>3</sup> TWA	None known
N-[2-(Dimethylamino) ethyl]-N,N'',N''-trimethyl-1,2-ethanediamine	None known	None known

**Appropriate engineering controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below the exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

### Personal protective equipment (PPE):

**Eye and face protection:** Wear safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166.

**Skin protection:** Handle with chemical resistant gloves such as nitrile rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

**Thermal hazards:** None known.

## SECTION 9: Physical and chemical properties

<b>Appearance:</b>	Clear
<b>Physical state:</b>	Liquid
<b>Colour:</b>	Purple to Black
<b>Odour:</b>	Slight
<b>Odour threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/freezing point:</b>	Not available
<b>Boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	>93.33°C (>200°F) (closed cup)
<b>Evaporation rate:</b>	Not available
<b>Flammability:</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower %:</b>	Not available
<b>Flammability limit – upper %:</b>	Not available
<b>Explosive limit – lower %:</b>	Not available
<b>Explosive limit – upper %:</b>	Not available
<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Relative density:</b>	1.072 to 1.082
<b>Solubility:</b>	Not available
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available

## SECTION 10: Stability and reactivity

<b>Reactivity:</b>	Not expected to be reactive
<b>Chemical stability:</b>	Material is stable under normal conditions.

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<b>Conditions to avoid:</b>	Exposure to moisture.
<b>Incompatible materials and possible hazardous reactions:</b>	Avoid contact with strong oxidizing agents.
<b>Hazardous decomposition products:</b>	If involved in a fire, CO (Carbon Monoxide), CO <sub>2</sub> (Carbon Dioxide), toxic and irritating gases may be generated.

## SECTION 11: Toxicological information

### Information on routes of exposure:

<b>Inhalation:</b>	Expected to be a route of entry.
<b>Ingestion:</b>	Expected to be a route of entry.
<b>Skin:</b>	Expected to be a route of entry.
<b>Eyes:</b>	Expected to be a route of entry.
<b>Target Organs:</b>	Kidneys, skin, eyes. respiratory system, lungs

### Symptoms related to exposure:

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause damage to the kidneys when swallowed.

### Numerical measures of toxicity:

#### Acute toxicity:

Substance	Test Type (species)	Value
Glycerol, propoxylated	LD <sub>50</sub> Oral (Rat)	> 2000 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	> 2000 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	No data available
Diethylene Glycol-phthalic Anhydride Polymer	LD <sub>50</sub> Oral (Rat)	No data available
	LD <sub>50</sub> Dermal (Rabbit)	> 2000 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	No data available
Diethylene glycol	LD <sub>50</sub> Oral (Rat)	12565 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	11890 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	> 4600 mg/m <sup>3</sup> 4h
Dipropylene Glycol	LD <sub>50</sub> Oral (Rat)	14850 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	> 5010 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	> 2.34 mg/L 4h
Diethyl toluenediamine	LD <sub>50</sub> Oral (Rat)	485 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	700 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	0.0518 mg/m <sup>3</sup>

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Ethylene Glycol	LD <sub>50</sub> Oral (Rat)	4700 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	10600 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	> 2.5 mg/L 6h
Carbon Black	LD <sub>50</sub> Oral (Rat)	> 15400 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	> 8000 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	> 4.6 mg/m <sup>3</sup> 4h
N-[2-(Dimethylamino)ethyl]-N,N'',N'''-trimethyl-1,2-ethanediamine	LD <sub>50</sub> Oral (Rat)	1630 µL/kg
	LD <sub>50</sub> Dermal (Rabbit)	200 - 1000 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	2055.5 mg/m <sup>3</sup> 6h

- Skin corrosion/irritation:** Causes skin irritation.
- Serious eye damage/irritation:** Contact with eyes may cause serious eye irritation.
- Respiratory or skin sensitization:** Not expected to cause respiratory or skin sensitization
- Germ cell mutagenicity:** Not expected to cause germ cell mutagenicity.
- Carcinogenicity:** Suspected of causing cancer.
- Reproductive toxicity:** Not expected to cause reproductive toxicity.
- Specific target organ toxicity (STOT) - Single exposure:** May cause damage to the kidneys when swallowed after a single exposure.
- Specific target organ toxicity (STOT) - Repeat exposure:** Not expected to cause Specific target organ toxicity after repeated exposure.
- Aspiration hazard:** Not expected to be an aspiration hazard.
- Immediate, delayed and chronic health effects from exposure:**  
Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause damage to the kidneys when swallowed.

## SECTION 12: Ecological information

**Ecotoxicity:** Toxic to aquatic life with long lasting effects. Toxic to terrestrial vertebrates

Substance	Test Type	Species	Value
Glycerol, propoxylated	LC <sub>50</sub>	Fish	No data available
	EC <sub>50</sub>	Daphnia magna	No data available
	EC <sub>50</sub>	Algae	No data available



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Diethylene Glycol-phthalic Anhydride Polymer	LC <sub>50</sub>	Fish	No data available
	EC <sub>50</sub>	Daphnia magna	No data available
	EC <sub>50</sub>	Algae	No data available
Diethylene glycol	LC <sub>50</sub>	Fish - Pimephales promelas	75200 mg/l - 96h
	LC <sub>50</sub>	Daphnia magna– water flea	84000 mg/l - 48 h
	EC <sub>50</sub>	Algae	No data available
Dipropylene Glycol	LC <sub>50</sub>	Fish Carassius auratus	> 5000 mg/L 24h
	EC <sub>50</sub>	Daphnia magna	> 100 mg/l 48h
	EC <sub>50</sub>	Algae Desmodesmus subspicatus	> 100 mg/l 72h
Diethyl toluenediamine	LC <sub>50</sub>	Fish Leuciscus idus	200 mg/L 96h
	EC <sub>50</sub>	Daphnia magna	0.5 mg/L 48h
	EC <sub>50</sub>	Algae	104 mg/L 72h
Ethylene Glycol	LC <sub>50</sub>	Fish Poecilia reticulata	16000 mg/L 96h
	EC <sub>50</sub>	Daphnia magna	46300 mg/L 48h
	EC <sub>50</sub>	Algae Pseudokirchneriella subcapitata	6500 - 13000 mg/L 96h
Carbon Black	LC <sub>50</sub>	Fish Leuciscus idus	> 1000 mg/L 96h
	EL <sub>50</sub>	Daphnia magna	> 5600 mg/L 48h
	EC <sub>50</sub>	Algae	> 10000 mg/L 72h
N-[2-(Dimethylamino)ethyl]-N,N",N"-trimethyl-1,2-ethanediamine	LC <sub>50</sub>	Fish Oncorhynchus mykiss	157 mg/L 96h
	EC <sub>50</sub>	Daphnia magna	54.9 mg/L 48h
	EC <sub>50</sub>	Algae	78.3 mg/L 72h

**Persistence and Degradability:** Not established.

**Bioaccumulative Potential:** Not established.

**Mobility in Soil:** Not established.

**Other adverse effects:** Toxic to aquatic life with long lasting effects. Toxic to terrestrial vertebrates.

### SECTION 13: Disposal considerations

**Safe handling and disposal methods:**

Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable national and local regulations.

**Disposal of any contaminated packaging:**

Contaminated packaging may contain residues of product. Dispose of in the same manner as product. Comply with applicable local, national or international regulations concerning solid or hazardous waste disposal and/or container disposal.

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## SECTION 14: Transport Information

### Dangerous Goods 2005 (Rule 45001/1) incorporating the UN Recommendations on the Transport of Dangerous Goods – Model Regulations:

UN Number: Not classified as hazardous for transport  
Proper shipping name or  
Technical Name: Not applicable  
Transport hazard class: Not applicable  
Packing group: Not applicable

### IMDG (Transport by sea)

UN Number: Not classified as hazardous for transport  
Proper shipping name or  
Technical Name: Not applicable  
Transport hazard class: Not applicable  
Packing group: Not applicable

### IATA (Transport by air)

UN Number: Not classified as hazardous for transport  
Proper shipping name or  
Technical Name: Not applicable  
Transport hazard class: Not applicable  
Packing group: Not applicable

### Environmental hazards for Transport Purposes:

Marine pollutant: No

### Special precautions for user:

No data available

### HAZCHEM or Emergency Action Code:

Not applicable

## SECTION 15: Regulatory Information

### New Zealand - Inventory of Chemicals (NZIoC)

Chemical Name	CAS Number	NZIoC
Glycerol, propoxylated	25791-96-2	HSNO Approval: HSR006700
Diethylene Glycol-phthalic Anhydride Polymer	32472-85-8	May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right
Diethylene glycol	111-46-6	HSNO Approval: HSR002709
Dipropylene Glycol	25265-71-8	HSNO Approval: HSR003052
Diethyl toluenediamine	68479-98-1	HSNO Approval: HSR004082
Ethylene Glycol	107-21-1	HSNO Approval: HSR001534
Carbon black	1333-86-4	HSNO Approval: HSR002801

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Chemical Name	CAS Number	NZIoC
N-[2-(Dimethylamino)ethyl]-N,N",N"-trimethyl-1,2-ethanediamine	3030-47-5	HSNO Approval: HSR003583

### New Zealand - GHS Classifications - HSNO Chemical Classification Information Database (CCID)

Chemical Name	CAS Number	CCID
Glycerol, propoxylated	25791-96-2	6.4A (Approval number: HSR006700)
Diethylene Glycol-phthalic Anhydride Polymer	32472-85-8	None known
Diethylene glycol	111-46-6	6.1E oral, 6.9B oral (Approval number: HSR002709)
Dipropylene Glycol	25265-71-8	6.3B, 6.4A (>10% in a non hazardous diluent, Approval number: HSR006686); 6.3B, 6.4A (Approval number: HSR003052)
Diethyl toluenediamine	68479-98-1	6.1C dermal, 6.1D oral, 6.4A, 6.9A oral, 9.1A algal, 9.1A crustacean, 9.1A fish, 9.3B (Approval number: HSR004082)
Ethylene Glycol	107-21-1	6.1D oral, 6.4A, 6.9A oral, 9.3C (Approval number: HSR001534); 6.4A, 6.9A oral (>10-25% in a non hazardous diluent, Approval number: HSR006383, listed under Ethylene glycol); 6.9B oral (>1-10% in a non hazardous diluent, Approval number: HSR006384, listed under Ethylene glycol); 6.1E oral, 6.4A, 6.9A oral, 9.3C (>34-83% in a non hazardous diluent, Approval number: HSR006385, listed under Ethylene glycol)
Carbon black	1333-86-4	6.3B, 6.4A, 6.7B (Approval number: HSR002801); 6.3B, 6.4A, 6.7B (>10% in a non hazardous diluent, Approval number: HSR006615)
N-[2-(Dimethylamino)ethyl]-N,N",N"-trimethyl-1,2-ethanediamine	3030-47-5	3.1C, 6.1C oral, 6.1C dermal, 8.2B, 8.3A (Approval number: HSR003583)

### SECTION 16: Other information

Revision Date: May 3<sup>rd</sup> 2022

DISCLAIMER: This document has been prepared in accordance with the SDS requirements of the New Zealand GHS Regulations. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of

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suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.