



# Safety Data Sheet

## PYRONEG

Revision: 2018-08-21

Version: 01.0

### SECTION 1: Identification of the substance/mixture and supplier

#### 1.1 Product identifier

**Product name:** PYRONEG

#### 1.2 Recommended use and restrictions on use

**Identified uses:**

Special laboratory and instrument detergent

**Restrictions of use:**

Uses other than those identified are not recommended

#### 1.3 Details of the supplier

DIVERSEY NEW ZEALAND LTD.

24 Bancroft Crescent, Glendene, Auckland, 0602, New Zealand

Telephone: +64 9 813 9800; 0800 803 615 (toll free)

Fax: + 64 9 813 9801

Website: www.diversey.com

#### 1.4 Emergency telephone number

Call 0800 243 622 (24 hrs)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**HSNO Classification**

6.1D - Acutely toxic (inhalation)

6.1E - Acutely toxic (oral)

6.3A - Irritating to the skin

8.3A - Corrosive to ocular tissue

9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

**GHS Equivalent Classification**

Acute toxicity, inhalation, Category 4

Acute toxicity, oral, Category 5

Skin irritation, Category 2

Serious eye damage, Category 1

Acute aquatic toxicity, Category 3

#### 2.2 Label elements



**Signal word:** Danger

**Hazard statements:**

H303 - May be harmful if swallowed.

H332 - Harmful if inhaled.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H402 - Harmful to aquatic life.

**Prevention statement(s):**

P233 - Keep container tightly closed.

P261 - Avoid breathing dust.

P261 - Avoid breathing vapours.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

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

P280 - Wear protective gloves, protective clothing and eye or face protection.

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**Response statement(s):**

P332 + P313 - If skin irritation occurs: Get medical advice or attention.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P310 - Immediately call a POISON CENTRE, doctor or physician.

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

P362 - Take off contaminated clothing.

**Disposal statement(s):**

P501 - Dispose of unused content as chemical waste.

**2.3 Other hazards**

No other hazards known.

**2.4 Classification diluted product:**

Recommended maximum concentration (%): 0.3

**HSNO Classification**

Not classified as hazardous

Not classified as hazardous

**SECTION 3: Composition/information on ingredients****3.1 Substances / Mixtures**

Ingredient(s)	CAS number	EC number	Weight percent
sodium carbonate	497-19-8	207-838-8	30-60
pentasodium triphosphate	7758-29-4	231-838-7	10-30
sodium alkylbenzenesulphonate	68411-30-3	270-115-0	3-10
propane-1,2-diol	57-55-6	200-338-0	3-10

Non-hazardous ingredients are the remainder and add up to 100%.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.

**Inhalation:**

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE, doctor or physician. Call a POISON CENTRE, doctor or physician if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation or rash occurs: Get medical advice or attention. If skin irritation occurs: Get medical advice or attention.

**Eye contact:**

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:**

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

**First aid facilities:**

Eyewash facilities should be considered in a workplace where necessary.

**4.2 Most important symptoms and effects, both acute and delayed****Inhalation:**

No known effects or symptoms in normal use.

**Skin contact:**

Causes irritation.

**Eye contact:**

Causes severe or permanent damage.

**Ingestion:**

No known effects or symptoms in normal use.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**Poison Information Center:** Call 0800 764 766 (0800 POISON)

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**5.2 Special hazards arising from the substance or mixture**

No special hazards known.

**5.3 Advice for firefighters**

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

**5.4 Hazchem code**

None allocated

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and eye/face protection.

**6.2 Environmental precautions**

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

**6.3 Methods and material for containment and cleaning up**

Collect mechanically. Ensure adequate ventilation.

**6.4 Reference to other sections**

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with eyes. Do not breathe dust. Do not breathe vapours. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)	Ceiling value(s)
propane-1,2-diol	150 ppm 474 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>		

Biological limit values, if available:

**8.2 Exposure controls**

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.*

*Recommended safety measures for handling the undiluted product:*

*Covering activities such as filling and transfer of product to application equipment, flasks or buckets*

**Appropriate engineering controls:**

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

**Appropriate organisational controls:**

Avoid direct contact and/or splashes where possible. Train personnel.

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**Personal protective equipment****Eye / face protection:**

Safety glasses or goggles (EN 166).

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq 480$  min Material thickness:  $\geq 0.7$  mmSuggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:**

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN ISO 13982-1).

**Respiratory protection:**

If exposure to dust cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen.

**Environmental exposure controls:**

No special requirements under normal use conditions.

*Recommended safety measures for handling the diluted product:***Recommended maximum concentration (%): 0.3****Appropriate engineering controls:**

No special requirements under normal use conditions.

**Appropriate organisational controls:**

No special requirements under normal use conditions.

**Personal protective equipment****Eye / face protection:**

No special requirements under normal use conditions. Covered by respiratory protection.

**Hand protection:**

No special requirements under normal use conditions.

**Body protection:**

No special requirements under normal use conditions.

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:**

No special requirements under normal use conditions.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Physical State:** Solid**Appearance:** Powder**Colour:** Opaque Pink**Odour:** Product specific**Odour threshold:** Not applicable**pH:** Not applicable. (neat)**Dilution pH:**  $\approx 10$  (1%)**Melting point/freezing point (°C):** Not determined**Initial boiling point and boiling range (°C):** Not determined**Flash point (°C):** Not applicable.**Sustained combustion:** Not applicable.*(UN Manual of Tests and Criteria, section 32, L.2)***Evaporation rate:** Not determined**Flammability (solid, gas):** Not applicable to liquids**Upper/lower flammability limit (%):** Not determined**Vapour pressure:** Not determined**Vapour density:** Not determined**Relative density:** Not determined**Solubility in / Miscibility with Water:** Soluble**Partition coefficient: n-octanol/water** No information available.

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**Viscosity:** Not determined**Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising**Method / remark**

ISO 4316

Not relevant to classification of this product

Not applicable to solids or gases

Not relevant to classification of this product

Not relevant to classification of this product

Not applicable to solids or gases

**9.2 Other information****Surface tension (N/m):** Not determined**Corrosion to metals:** Not determined

Not applicable to solids or gases

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): 2400

ATE - Inhalatory, mists (mg/l): 2.6

Substance data, where relevant and available, are listed below:

**Acute toxicity**

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD <sub>50</sub>	2800	Rat	Method not given	
pentasodium triphosphate	LD <sub>0</sub>	> 2000	Rat	OECD 401 (EU B.1)	
sodium alkylbenzenesulphonate	LD <sub>50</sub>	1080	Rat	Method not given	
propane-1,2-diol	LD <sub>50</sub>	> 10000	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
pentasodium triphosphate	LD <sub>50</sub>	> 4640	Rabbit	Method not given	
sodium alkylbenzenesulphonate	LD <sub>50</sub>	> 2000	Rat	Method not given	
propane-1,2-diol	LD <sub>50</sub>	> 2000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC <sub>50</sub>	2.3 (dust)	Rat	OECD 403 (EU B.2)	2
pentasodium triphosphate	LC <sub>0</sub>	0.39 (dust)	Rat	EPA OPP 81-3	4
sodium alkylbenzenesulphonate		No data available			
propane-1,2-diol	LC <sub>50</sub>	> 317 (mist) No mortality observed	Rabbit	Non guideline test	

**Irritation and corrosivity**

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Not irritant	Rabbit	Method not given	
pentasodium triphosphate	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium alkylbenzenesulphonate	Irritant	Rabbit	OECD 404 (EU B.4)	
propane-1,2-diol	Not irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	Method not given	

pentasodium triphosphate	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
sodium alkylbenzenesulphonate	Corrosive	Rabbit	OECD 405 (EU B.5)	
propane-1,2-diol	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
pentasodium triphosphate	No data available			
sodium alkylbenzenesulphonate	Not irritating to respiratory tract			
propane-1,2-diol	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	
pentasodium triphosphate	Not sensitising	Mouse	OECD 429 (EU B.42)	
sodium alkylbenzenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
propane-1,2-diol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
pentasodium triphosphate	No data available			
sodium alkylbenzenesulphonate	No data available			
propane-1,2-diol	No data available			

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sodium carbonate	No data available		No data available	
pentasodium triphosphate	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	OECD 475 (EU B.11)
sodium alkylbenzenesulphonate	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476 OECD 473	No data available	
propane-1,2-diol	No evidence for mutagenicity, negative test results	Method not given	No data available	

## Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
pentasodium triphosphate	No evidence for carcinogenicity, negative test results
sodium alkylbenzenesulphonate	No data available
propane-1,2-diol	No evidence for carcinogenicity, negative test results

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium carbonate			No data available				
pentasodium triphosphate	NOAEL	Developmental toxicity	141	Rat	Not known		No evidence for reproductive toxicity
sodium alkylbenzenesulphonate	NOAEL	Teratogenic effects	300	Rat	Non guideline test		No known significant effects or critical hazards
propane-1,2-diol			No data available				No evidence for reproductive toxicity

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available				
pentasodium triphosphate		No data available				
sodium alkylbenzenesulphonate		No data available				
propane-1,2-diol		No data available				

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## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available				
pentasodium triphosphate		No data available				
sodium alkylbenzenesulphonate		No data available				
propane-1,2-diol		No data available				

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available				
pentasodium triphosphate		No data available				
sodium alkylbenzenesulphonate		No data available				
propane-1,2-diol		No data available				

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
sodium carbonate			No data available					
pentasodium triphosphate	Oral	NOAEL	225	Rat	Equivalent of OECD 412 (EU B.8)			
sodium alkylbenzenesulphonate			No data available					
propane-1,2-diol			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
pentasodium triphosphate	No data available
sodium alkylbenzenesulphonate	No data available
propane-1,2-diol	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
pentasodium triphosphate	No data available
sodium alkylbenzenesulphonate	No data available
propane-1,2-diol	No data available

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

## 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

## Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC <sub>50</sub>	300	<i>Lepomis macrochirus</i>	Method not given	96
pentasodium triphosphate	LC <sub>50</sub>	1850	<i>Brachydanio rerio</i>	Method not given	24
sodium alkylbenzenesulphonate	LC <sub>50</sub>	1.67	<i>Fish</i>	EPA-OPPTS 850.1075	96

propane-1,2-diol	LC <sub>50</sub>	> 1000	Fish	Method not given	24
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## Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC <sub>50</sub>	265	<i>Daphnia magna</i> Straus	Method not given	96
pentasodium triphosphate	EC <sub>50</sub>	> 100	<i>Daphnia magna</i> Straus	40 CFR 797.1930	48
sodium alkylbenzenesulphonate	LC <sub>50</sub>	2.4	<i>Daphnia</i>	84/449/EEC, C2	48
propane-1,2-diol	EC <sub>50</sub>	> 100	<i>Daphnia</i>	Method not given	48

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate		No data available			-
pentasodium triphosphate	EC <sub>50</sub>	160	<i>Desmodesmus subspicatus</i>	ISO/TC147/SC5/WG5 N84	96
sodium alkylbenzenesulphonate	E <sub>b</sub> C <sub>50</sub>	47.3	Not specified	Non guideline test	72
propane-1,2-diol	EC <sub>50</sub>	24200	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			-
pentasodium triphosphate		No data available			-
sodium alkylbenzenesulphonate		No data available			
propane-1,2-diol		No data available			-

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium carbonate		No data available			
pentasodium triphosphate		No data available			
sodium alkylbenzenesulphonate	EC <sub>50</sub>	550	Bacteria	OECD 209	3 hour(s)
propane-1,2-diol	EC <sub>0</sub>	> 20000	<i>Pseudomonas putida</i>	Method not given	18 hour(s)

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
pentasodium triphosphate	LOEC	5		OECD 212	96 hour(s)	
sodium alkylbenzenesulphonate	NOEC	0.268	Not specified	Method not given	96 day(s)	
propane-1,2-diol		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
pentasodium triphosphate		No data available				
sodium alkylbenzenesulphonate	NOEC	1.41	<i>Daphnia magna</i>	OECD 211		
propane-1,2-diol	NOEC	13020	<i>Ceriodaphnia dubia</i>	Method not given	7 day(s)	

## Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
pentasodium triphosphate		No data available			-	
sodium alkylbenzenesulphonate		No data available				



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propane-1,2-diol		No data available			-	
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**Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium carbonate		No data available			-	
pentasodium triphosphate		No data available			-	
propane-1,2-diol		No data available			-	

Terrestrial toxicity - plants, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium carbonate		No data available			-	
pentasodium triphosphate		No data available			-	
propane-1,2-diol		No data available			-	

Terrestrial toxicity - birds, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium carbonate		No data available			-	
pentasodium triphosphate		No data available			-	
propane-1,2-diol		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium carbonate		No data available			-	
pentasodium triphosphate		No data available			-	
propane-1,2-diol		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium carbonate		No data available			-	
pentasodium triphosphate		No data available			-	
propane-1,2-diol		No data available			-	

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

<b>Ingredient(s)</b>	<b>Half-life time in fresh water</b>	<b>Method</b>	<b>Evaluation</b>	<b>Remark</b>
sodium carbonate	No data available		Rapidly hydrolysible	

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

<b>Ingredient(s)</b>	<b>Inoculum</b>	<b>Analytical method</b>	<b>DT<sub>50</sub></b>	<b>Method</b>	<b>Evaluation</b>
sodium carbonate					Not applicable (inorganic substance)
pentasodium triphosphate					Not applicable (inorganic substance)
sodium alkylbenzenesulphonate	Activated sludge, aerobe	CO <sub>2</sub> production		OECD 301B	Readily biodegradable
propane-1,2-diol			> 70 % in 28	OECD 301A	Readily biodegradable

			day(s)		
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Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	
pentasodium triphosphate	No data available			
sodium alkylbenzenesulphonate	3.32	Method not given	High potential for bioaccumulation	
propane-1,2-diol	-1.07	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
pentasodium triphosphate	No data available				
sodium alkylbenzenesulphonate	2-1000		Method not given	High potential for bioaccumulation	
propane-1,2-diol	No data available				

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
pentasodium triphosphate	No data available				
sodium alkylbenzenesulphonate	No data available				
propane-1,2-diol	No data available				Potential for mobility in soil, soluble in water

### 12.5 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**Empty packaging**

**Recommendation:**

Dispose of observing national or local regulations.

## SECTION 14: Transport information

Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

**14.1 UN number:** Non-dangerous goods

**14.2 UN proper shipping name:** Non-dangerous goods

**14.3 Transport hazard class(es):** Non-dangerous goods

**14.4 Packing group:** Non-dangerous goods

**14.5 Environmental hazards:** Non-dangerous goods

**14.6 Special precautions for user:** Non-dangerous goods

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Non-dangerous goods

**Other relevant information:**

Hazchem code: None allocated

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**HSNO Approval Number**

HSR002530.

**Group standard**

Cleaning Products (Subsidiary Hazard) Group Standard 2017

**Inventory Listing(s)**

New Zealand: NZIoC (New Zealand Inventory of Chemicals)

All components are listed on the NZIoC inventory, or are exempt

## SECTION 16: Other information

## PYRONEG

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS32000248**Version:** 01.0**Revision:** 2018-08-21

**Exposure standards - Time Weighted Average (TWA) or Workplace Exposure Standard (WES) (NZ):** Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

**Abbreviations and acronyms:**

- DNEL - Derived No Effect Limit
- AUH - GHS Specific hazard statement
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number
- OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**