

**SAFETY DATA SHEET**According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017**Section 1. Identification of the material and the supplier**

Product: **ANSUL Nitrogen**  
 Product Use: Fire Extinguishing Agent  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Safeworld Limited**  
 Address: 17 Fairfax Avenue  
 Penrose  
 Auckland, 1061

Telephone: +64 9 218 9403  
**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 7 November 2025

**Section 2. Hazards Identification****Pictograms**Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Liquefied Gas	H280	Contains gas under pressure may explode if heated.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.

Response Code	Response Statement
None Allocated	

Storage Code	Storage Statement
P403	Store in a well-ventilated place.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Other Hazards	
	May displace oxygen and cause rapid suffocation.
	The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**Section 3. Composition / Information on Hazardous Ingredients**

Ingredients	Wt%	CAS NUMBER.
Nitrogen	90 - 100%	7727-37-9

#### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Seek medical attention if needed.
If on Skin	Wash skin with plenty of water. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Rinse mouth. Never give anything to the mouth of an unconscious person. Seek medical attention if needed.
If Inhaled	Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

#### Most important symptoms and effects, both acute and delayed

Symptoms: Unconsciousness.

#### Indication of any immediate medical attention and special treatment needed

Note to Doctors: Treat symptomatically

#### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non-Flammable. Exposure to fire may cause containers to rupture/explode
<b>Hazards from combustion products</b>	Carbon oxides. Fluorinated oxides. Nitrogen oxides (NOx). Oxides of sulphur.
<b>Suitable Extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Precautions for firefighters and special protective clothing</b>	Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.
<b>HAZCHEM CODE</b>	<b>2TE</b>

#### Section 6. Accidental Release Measures

##### For emergency responders:

Wear PPE as detailed in Section 8. Ensure adequate ventilation, especially in confined areas.

##### Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

##### Methods and material for containment and cleaning up:

Pick up and transfer to properly labelled containers. Dispose as per Section 13.

#### Section 7. Handling and Storage

##### Precautions for Handling and Storage:

- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Avoid contact with skin and eyes.
- Do not eat, drink or smoke when using this product.

**Section 8****Exposure Controls / Personal Protection****WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA	STEL
	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15<sup>TH</sup> EDITION.

**Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

**Personal Protection Equipment**

<b>Eyes</b>	Avoid contact with eyes. Tight sealing safety goggles.
<b>Skin</b>	Wear protective natural rubber, nitrile rubber, Neoprene <sup>TM</sup> or PVC gloves. Gloves must conform to standard EN 374. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Respiratory</b>	In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN 140 with Type A filter or better.

**Section 9****Physical and Chemical Properties**

<b>Appearance</b>	Compressed Gas
<b>Colour</b>	Colourless
<b>Odour</b>	None
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Boiling Point</b>	-2 °C
<b>Melting/Freezing Point</b>	Not available
<b>Critical temperature [C]</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not flammable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Relative Density, gas</b>	Not available
<b>Relative Density, liquid</b>	Not available
<b>Specific Gravity</b>	Not available
<b>Water Solubility</b>	Not available
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Other data</b>	Not available

**Section 10. Stability and Reactivity**

<b>Stability of Substance</b>	This product is stable under normal conditions.
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<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible Materials</b>	Strong oxidising agents. Strong acids. Strong bases.
<b>Hazardous Decomposition Products</b>	Carbon oxides. Nitrogen oxides (NOx). Oxides of sulphur. Fluorinated oxides.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	This product is not classified as acutely toxic.
<b>Dermal</b>	This product is not classified as acutely toxic.
<b>Inhalation</b>	This product is not classified as acutely toxic. In high concentration the gas may cause a suffocation. Victim may not be aware of asphyxiation. In confined or poorly ventilated areas, vapours can readily accumulate and can cause unconsciousness and death.
<b>Eye</b>	This product is not classified as an eye irritant/corrosive. Contact with product may cause frostbite.
<b>Skin</b>	This product is not classified as a skin irritant/corrosive. Contact with product may cause frostbite.

### Chronic Effects:

<b>Carcinogenicity</b>	This product is not classified as carcinogenic.
<b>Reproductive Toxicity</b>	This product is not classified as toxic for reproduction, however lack of oxygen during pregnancy has produced developmental abnormalities in humans.
<b>Germ Cell Mutagenicity</b>	This product is not classified as mutagenic.
<b>Aspiration</b>	This product is not classified as Asp Tox.
<b>STOT/SE</b>	This product is not classified as STOT SE.
<b>STOT/RE</b>	This product is not classified as STOT RE.

## Section 12. Ecotoxicological Information

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

<b>Product:</b>	
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

## Section 13. Disposal Considerations

### Disposal Method:

Do not discharge into any place where its accumulation could be dangerous. To atmosphere in a well-ventilated place. Discharge to atmosphere in large quantities should be avoided. Contact supplier if guidance is required.

**Precautions or methods to avoid:** None known.

## Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021**

Product Name: **ANSUL Nitrogen**  
Date of SDS: 7 November 2025

SDS Prepared by: TCC (NZ) Ltd  
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## Road, Rail, Sea and Air Transport

<b>UN No</b>	1066
<b>Class - Primary</b>	2.2
<b>Packing Group</b>	n/a
<b>Proper Shipping Name</b>	NITROGEN, COMPRESSED
<b>Marine Pollutant</b>	No
<b>Special Provisions</b>	If the product's individual container is below 500ml, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

### Section 15 Regulatory Information

This substance is NOT classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

### Section 16 Other Information

#### Glossary

Cat	Category
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

#### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15<sup>th</sup> edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the New Zealand distributor, if further information is required.

Issue Date: 7 November 2025

Review Date: 7 November 2030