Company Logo

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product:	**ANSUL NFF-332 3x3 AR-SFFF**
Product Use:	Class A Class B Fire fighting foam
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

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Fire Fighting Chemicals – HSR002573

Pictograms

Signal Word: **DANGER**

GHS Category	Hazard Code	Hazard Statement
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P261	Avoid breathing fumes, mist, vapours or spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective clothing as detailed in SDS Section 8.

Response Code	Response Statement
P310	Immediately call a POISON CENTER or doctor/physician.
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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	Storage Statement
None Allocated	

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

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
2-(2-Butoxyethoxy)ethanol	1 - 5%	112-34-5
Fatty Alcohol Sulfate, TEA-salt	3 - 7%	139-96-8
1,2-Benzisothiazol-3 (2H)-on	<0.1%	2634-33-5

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes — Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If on Skin — Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Take off contaminated clothing and wash before reuse.

If Swallowed — Rinse mouth and drink plenty of water. Never give anything to the mouth of an unconscious person. Seek medical attention if needed.

If Inhaled — Remove person to fresh air. Allow person to assume most comfortable position and keep warm. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: Causes serious eye damage. Burning May cause blindness May cause redness and tearing of the eyes. May cause sensitisation in susceptible persons.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	None known.
Suitable Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not scatter spilled material with high pressure water streams.
Precautions for firefighters and special protective clothing	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
HAZCHEM CODE	**None Allocated**

Section 6. Accidental Release Measures

For emergency responders:
Wear protective equipment as detailed in Section 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions:
Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Take up mechanically, placing in appropriate containers for disposal. Dispose of as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Avoid breathing fumes, mist, vapours or spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing as detailed in SDS Section 8.
- Avoid contact with skin, eyes or clothing.
- Do not eat, drink or smoke when using this product.
- Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
- Take off contaminated clothing and wash it before reuse.

Precautions for Storage:

- Do not freeze.
- Keep container tightly closed in a dry and well-ventilated place.
- Keep out of the reach of children.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³

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 15TH EDITION.

Engineering Controls

Use local exhaust or general dilution ventilation to control exposure within applicable limits.

Personal Protection Equipment

Eyes	Tight sealing safety goggles.
Skin	Wear suitable gloves. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment Wear a respirator conforming to EN 140 with Type A filter or better
General Hygiene	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Section 9 Physical and Chemical Properties

Appearance	Liquid - Turbid
Colour	Pale yellow
Odour	Slight sweetness - surfactant.
Odour Threshold	Not available
pH	7 - 8
Boiling Point	Not available

Melting/Freezing Point	-4 ˚C
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	1.13 g/ml
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Dynamic Viscosity	2000 - 3000 mPa s
Refractive Index	1.3976-1.4176

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Strong acids. Strong bases. Strong oxidising agents.
Hazardous Decomposition Products	Carbon Oxides,

Section 11 Toxicological Information

Acute Effects:

Swallowed	This product is not classified as acutely toxic. ATEmix (oral) 21,314.40 mg/kg. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Dermal	This product is not classified as acutely toxic. ATEmix (dermal) 22,865.80 mg/kg
Inhalation	This product is not classified as acutely toxic.
Eye	Causes serious eye damage. May cause redness, burning. May cause blindness. May cause tearing of the eyes.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	This product is not classified as carcinogenic.
Reproductive Toxicity	This product is not classified as toxic for reproduction.
Germ Cell Mutagenicity	This product is not classified as mutagenic.
Aspiration	This product is not classified as Asp Tox.
STOT/SE	This product is not classified as STOT SE.
STOT/RE	This product is not classified as STOT RE.

Individual Component Data:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
1,2-Benzisothiazol-3(2H)-on	= 1020 mg/kg (Rat)	>2000 mg/kg (Rat)	-

Section 12. Ecotoxicological Information

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

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LC50	32.96 mg/L	96 hours	NOEC: 12.5 mg/l
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	53 mg/L	48 hours	EC50 53 mg/l
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	ErC50	78 mg/L	72 hours	ErC50: 78 mg/l
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test Carbon and Ammonium Oxidation)	Activated sludge microorganisms	NOEC	50 mg/L		NOEC: 50 mg/l

Persistence and degradability
Inherently biodegradable.

Method	Exposure time	VALUE	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	59.6 %	Inherently biodegradable

Concentrate Biological Oxygen Demand (mg/L)

Biological Oxygen Demand (5 Day)	363600 mg/L
%BOD/COD	57.77 %
Biological Oxygen Demand (10 Day)	414800 mg/L
%BOD/COD	65.90 %
Biological Oxygen Demand (15 Day)	427200 mg/L
%BOD/COD	67.87 %
Biological Oxygen Demand (20 Day)	435600 mg/L
%BOD/COD	69.21 %
Biological Oxygen Demand (25 Day)	452800 mg/L
%BOD/COD	71.94 %
Biological Oxygen Demand (30 Day)	489200 mg/L
%BOD/COD	77.72 %
Chemical Oxygen Demand (mg/L)	629400 mg/L

3% Solution Biological Oxygen Demand (mg/L)

Biological Oxygen Demand (5 Day)	11120 mg/L
%BOD/COD	59.89 %
Biological Oxygen Demand (10 Day)	12680 mg/L
%BOD/COD	68.30 %
Biological Oxygen Demand (15 Day)	12850 mg/L
%BOD/COD	69.21 %
Biological Oxygen Demand (20 Day)	12680 mg/L
%BOD/COD	68.30 %
Biological Oxygen Demand (25 Day)	13740 mg/L
%BOD/COD	74.01 %
Biological Oxygen Demand (30 Day)	14980 mg/L
%BOD/COD	80.68 %
Chemical Oxygen Demand (mg/L)	18565 mg/L

Bioaccumulative Potential
No data on the product available.

Component Information:

Component Name	Partition Coefficient
2-(2-Butoxyethoxy)ethanol	1
1,2-Benzisothiazol-3(2H)-on	0.99

Mobility in Soil
No data on the product available**.**

Results of PBT and vPvB assessment:
The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Section 13. Disposal Considerations

Disposal Method:
Dispose as per Local Regulations.
Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Fire Fighting Chemicals – HSR002573

HSW (HS) Regulations 2017 and EPA Notices	**Trigger Quantity**
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

Cat	Category
EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	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 15th 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

The information herein is given in good faith, but no warranty, express or implied is made.

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

Issue Date: 7 November 2025 Review Date: 7 November 2030