

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

Product: **Noah 5112**
 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

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

EPA Approval Code: Fire Fighting Chemicals – HSR002573

Pictograms

Signal Word: **Warning**

GHS Category	Hazard Code	Hazard Statement
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P273	Avoid release to the environment.

Response Code	Response Statement
None Allocated	

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.
Perfluoro (2-methyl-3-pentanone)	>99.9%	756-13-8

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 Tel: 64 9 475 5240 www.techcomp.co.nz

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. If eye irritation persists: Get medical advice/attention.
If on Skin	Take off contaminated clothing and wash before reuse. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/ attention.
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: None known.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from products	Thermal decomposition in contact with acute heat: carbon monoxide, carbon dioxide, hydrogen fluoride, toxic vapors and gases.
Suitable Extinguishing media	There are NO extinguishing media which must not be used for safety reasons.
Precautions for firefighters and special protective clothing	Wear protective equipment and self-contained breathing apparatus (SCBA). Avoid inhaling products and thermal decomposition products or other substances in the fire area. When the container is exposed, spray the container with water to keep it cool to avoid breakage. Pay attention to the stability and reactivity of harmful thermal decomposition products.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

For emergency responders:

Use protective equipment. Ensure adequate ventilation. Avoid inhaling large amount of vapor. Cut off the source of leakage as much as possible. Ensure that people stay away from the leakage area or stay in the upwind direction of the leakage area. Unrelated persons are prohibited from entering. It is recommended that emergency responders wear air-carrying breathing apparatus and rubber oil-resistant gloves. Delimit the warning area according to the affected area of liquid flow and steam diffusion.

Environmental precautions:

If it can be operated safely, prevent further leakage. Avoid the product entering the drain, surface water, and underground water.

Methods and material for containment and cleaning up:

For larger leaks, the drainage ditch should be filled and build dikes to prevent the product from entering drainage system. Collect the residue containing the product as soon as possible and transport to the place permitted by the relevant authorities for disposal. From the edge of the leakage area to the inward treatment. Cover with bentonite, vermiculite or commercially available inorganic absorbent material. Mix well with these absorbers until dry. Collect as much of the spill as you can. Wash the residue with detergent and water. Seal the container well. When discharging this material, the user needs to verify that it is reported in accordance with local, state, and federal regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Avoid release to the environment.
- It is recommended that operators wear general work protective clothing and suitable chemical protective gloves.
- Avoid inhaling steam.
- The contents may be under pressure, be careful not to inhale thermal decomposition products when opening.
- The workplace should have ventilation systems and equipment.
- Wash hands and face thoroughly after operation.
- Be light when handling to prevent the package from breaking and causing losses.

Precautions for Storage:

- Storage and transportation requirements shall be handled as non-dangerous goods, and follow the industry's conventional storage and transportation requirements.
- Store in a clean, ventilated, and dry warehouse.
- Avoid direct sunlight, heat sources, and strong bases, amines and alcohols.
- Use appropriate labels, spill emergency treatment equipment and appropriate containment materials.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

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

Local exhaust ventilation shall be provided over open containers. In cases where material is exposed to extreme heat due to miss operation or equipment failure, the use of a container with a local exhaust port is sufficient to ensure that the thermal decomposition product is below explosive levels. Use ordinary dilution ventilation and local exhaust ventilation to keep airborne hazardous substances (dust/smoke/gas/smoke/steam/spray) below the relevant exposure limits. If ventilation is insufficient, wear respiratory protective equipment.

Personal Protection Equipment



Eyes	Goggles.
Skin	It is recommended to wear suitable protective gloves. Wear protective clothing in case of emergency.
Respiratory	As a good industrial hygiene rule: avoid inhaling steam, mist or spray. Not required under normal service conditions. If thermal decomposition occurs, do not inhale the vapor and wear a respirator. According to the concentration of pollutants in the air, choose a half mask or full mask type respirator. Based on the exposure assessment results, respiratory protection was selected to prevent respiratory exposure. Consult the respirator manufacturer to select the appropriate respirator.

Section 9 Physical and Chemical Properties

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Appearance	Liquid
Colour	Colourless / Transparent
Odour	Odourless
Odour Threshold	Not available
pH	Not available
Boiling Point	49.2 °C.
Melting/Freezing Point	-108 °C.
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Saturated Vapour Pressure	44.4 kPa (25 °C).
Vapour Density	Not applicable
Density	1.601 g·mL ⁻¹ (25 °C).
Water Solubility	Not applicable
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	0.4014 mm ² ·s ⁻¹ (25 °C).
Insulation performance (110 kV)	3.8 mA
GWP	<1
ODP	0
Atmospheric Lifetimes (day)	5

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	No data available.
Conditions to Avoid	Sunlight.
Incompatible Materials	Strong bases, amines and alcohols.
Hazardous Decomposition Products	CO, CO ₂ , HF, toxic vapors, gases, particulates.

Section 11 Toxicological Information

Acute Effects:

Swallowed	This product is not classified as acutely toxic. LD ₅₀ >5000 mg/kg
Dermal	This product is not classified as acutely toxic. LD ₅₀ >2000 mg/kg (big mouse)
Inhalation	This product is not classified as acutely toxic. LC ₅₀ (4 h)>20528.0 mg·m ⁻³ ;
Eye	This product is not classified as an eye irritant/corrosive.
Skin	This product is not classified as a skin irritant/corrosive.

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.

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Dispose of waste in licensed industrial waste disposal facilities. Incineration in a licensed waste incineration facility as one of the options for waste disposal. Proper destruction may use additional fuel in the incineration process. Thermal decomposition products include HF and equipment must be capable of handling halogenated materials.

Precautions or methods to avoid: Do not allow to enter waterways.

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

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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