



TECH  
COATINGS

Fire  
Systems

# SAFETY DATA SHEET

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**FBL-100**

FIRE/THERMAL BARRIER

## Identification

**PRODUCT NAME:** FBL-100

**RECOMMENDED USE:** Fire/thermal barrier

**MANUFACTURER:** International Coatings Group, 757 SE 17th St, Suite 846 Fort Lauderdale, FL 33316. USA.  
Phone: (317) 218-7922

**SUPPLIER:** Tech Coatings, PO Box 18028 Merrilands, New Plymouth 4360, New Zealand  
Phone: +64 21 483 444. Email: shanew@techcoatings.co.nz www.techcoatings.co.nz

## Emergency Contacts

Emergency Services  
(Fire, Ambulance, Police)

**Dial 111**

Poisons Information  
Centre

**0800 Poison (764 766)**

## Hazard Identification

### STATEMENT OF HAZARDOUS NATURE:

This preparation is classified as a health or environmental hazard according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Not classified as a Dangerous Good according to NZS 5433

**HAZARD CLASSIFICATION:** WARNING  
6.3B

**HAZARD STATEMENTS:** Causes mild skin irritation

**PREVENTION STATEMENTS:** Read label before use  
Read safety data sheet  
before use

## Composition & Information on Ingredients

INGREDIENT	CAS NUMBER	PERCENTAGE COMPOSITION %
Ammonium Polyphosphate	68333-79-9	20-30
Water	7732-18-5	<20
2,4,6-Triamino-1,3,5-triazine	108-78-1	5-10
Pentaerythritol	115-77-5	5-10
Titanium Dioxide	13463-67-7	<10
Glass, oxide	65997-17-3	<10
Aluminium Trihydrate	21645-51-2	<5
Nonylphenoxypolyethoxyethanol	127087-87-0	<5
Coalescing Aid	N/A	<5

## First Aid Measures

**New Zealand Poisons & Hazardous Chemicals National Information Centre.  
Phone 0800 POISON – 0800 764 766**

**SKIN:** If on skin, wash with water. If skin irritation occurs, get medical advice/attention.

**EYES:** If in eyes, rinse thoroughly with water. If eye irritation occurs, get medical advice/attention.

**INGESTION:** Do not induce vomiting. Get medical advice/attention if you feel unwell.

**INHALATION:** If inhaled, remove to fresh air. Get medical advice/attention if you feel unwell.

**ADVICE TO DOCTOR:** Treat symptomatically.

## Fire Fighting Measures

**FLAMMABILITY:** Not flammable

**EXTINGUISHING MEDIA:** Use appropriate for surrounding materials. Prevent contamination of drains or water ways.

**UNSUITABLE EXTINGUISHING MEDIA:** Use of water spray when fighting fire may be inefficient.

**HAZARDOUS COMBUSTION PRODUCTS:** No information available.

## Accidental Release Measures

**SPILLS:** Absorb spill with sand or similar. Collect and place in labelled, sealable containers for disposal. Prevent spill from entering storm water and sewer drains and watercourses.

## Handling & Storage

### SAFE HANDLING

- Before use carefully read the product label and safety data sheet.
- Use of safe work practices are recommended to avoid eye or skin contact.
- Observe good personal hygiene, including washing hands before eating.
- Prohibit eating, drinking and smoking in work areas.

### STORAGE

- Store in cool, dry area, removed from foodstuffs
- Ensure there is sufficient ventilation for storage.
- Ensure containers are labelled, protected from physical damage and sealed when not in use.
- Keep away from direct sunlight.
- Prevent from freezing.
- Do not store at temperatures below 00°C or above 390°C.

## Exposure Controls & Personal Protection

### EXPOSURE STANDARDS

#### NZ WORKPLACE EXPOSURE STANDARDS (WES):

INGREDIENT	CAS NUMBER	TWA*
Pentaerythritol	115-77-5	10mg/m <sup>3</sup>
Titanium Dioxide	13463-67-7	10mg/m <sup>3</sup>
Glass, oxide	65997-17-3	

\* Data sourced from CCID.

#### INTERNATIONAL EXPOSURE STANDARDS:

INGREDIENT	CAS NUMBER	ACGIH TLVT <sup>†</sup>	OSHA PELT <sup>†</sup>	NIOSH IDLHT <sup>†</sup>
Pentaerythritol	115-77-5	TWA: 10mg/m <sup>3</sup>	TWA: 15mg/m <sup>3</sup> total dust TWA: 5mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10mg/m <sup>3</sup> total dust (vacated) TWA: 5mg/m <sup>3</sup> respirable fraction	TWA: 10mg/m <sup>3</sup> total dust TWA: 5mg/m <sup>3</sup> respirable dust
Titanium Dioxide	13463-67-7	TWA: 10mg/m <sup>3</sup>	TWA: 15mg/m <sup>3</sup> total dust (vacated) TWA: 10mg/m <sup>3</sup> total dust	IDLH: 5,000mg/m <sup>3</sup>
Glass, oxide	65997-17-3	TWA: 1 fibre/cm <sup>3</sup> respirable fibres TWA: 5mg/m <sup>3</sup> inhalable fraction		

<sup>†</sup> Data sourced from client provided SDS.

### ENGINEERING CONTROLS

#### VENTILATION:

Ensure adequate ventilation.

### PERSONAL PROTECTION (PPE)

#### EYES/FACE:

Splash resistant Safety Glasses with side shields or safety goggles (AS/NZS 1337) may be worn.

#### SKIN:

Protective clothes and clothing should be worn. The material must be impermeable and resistance to the product.

#### RESPIRATORY:

If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations.

## Physical & Chemical Properties

APPEARANCE:	White liquid	DENSITY:	1,443g/L
ODOUR:	Light ammonia	SOLUBILITY (WATER):	Not available
PH:	Not available	SPECIFIC GRAVITY:	1.37
BOILING POINT:	Not available	VOC CONTENT:	19g/L

## Stability & Reactivity

STABILITY: Stable under recommended storage conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: None known

CONDITIONS TO AVOID: Extremes of temperature and direct sunlight.

## Toxicological Information

### HEALTH EFFECTS / SYMPTOMS OF EXPOSURE

SKIN: Causes mild skin irritation.

### TOXICOLOGICAL DATA

INGREDIENT	CAS NUMBER	ACUTE TOXICITY ORAL	ACUTE TOXICITY DERMAL
Ammonium Polyphosphate	68333-79-9	LD50: 4,740mg/kg (Rat) †	
Water	7732-18-5	LD50: >90mL/kg (Rat) †	
2,4,6-Triamino-1,3,5-triazine	108-78-1	LD50: 3,161mg/kg (Rat) †	LD50: >1g/kg (Rabbit) †
Pentaerythritol	115-77-5	LD50: 10,000mg/kg (Rat) †	
Titanium Dioxide	13463-67-7	LD50: >10,000mg/kg (Rat) †	
Nonylphenoxyethoxyethanol	127087-87-0	LD50: 1,310mg/kg (Rat)* †	

\* Data sourced from CCID. † Data sourced from client provided SDS.

## Disposal Considerations

Disposal of waste through a specialist waste disposal contractor. Do not reuse container.

## Ecological Information

PERSISTENCE IN ENVIRONMENT: Not available

BIODEGRADABILITY: Not available

MOBILITY: Not available

### ECOTOXICOLOGICAL DATA

INGREDIENT	CAS NUMBER	AQUATIC TOXICITY*	TERRESTRIAL VERTEBRATES TOXICITY†
Ammonium Polyphosphate	68333-79-9	Fish: LC50: 500mg/L Brachydanio rerio (96 hour exposure) Fish: LC50: 123-1066mg/L Oncorhynchus mykiss (96 hour exposure) Fish: LC50: 389-654mg/L Pimephales (96 hour exposure)	
2,4,6-Triamino-1,3,5-triazine	108-78-1	Algae: EC50: 940mg/L Scenedesmus pannonicus (96 hour exposure) Fish: LC50: 3,000mg/L Poecilia reticulata (96 hour exposure) Crustacea: EC50: 2,000mg/L Daphnia magna (48 hour exposure)	
Pentaerythritol	115-77-5	Fish: LC50: 50,000mg/L Oryzias latipes (48 hour exposure) Crustacea: EC50: 30,477mg/L Daphnia magna (48 hour exposure) Crustacea: EC50: 38,900mg/L Daphnia magna (24 hour exposure)	
Nonylphenoxyethoxyethanol	127087-87-0		LD50: 1,310mg/kg (Rat)

\* Data sourced from CCID. † Data sourced from client provided SDS.

## Transport Information

Not classified as a Dangerous Good according to NZS 5433:2007.

PROPER SHIPPING NAME: Not available

MARINE POLLUTANT: Not available

UN NUMBER: Not available

## Regulatory Information

### HSNO APPROVAL

Group Standard – Surface Coatings and Colourants (subsidiary Hazard) Group Standard 2017. HSR002670. All ingredients are listed on the NZIoC.

### OTHER INFORMATION ABBREVIATIONS / TERMINOLOGY:

AS/NZS 1337	Personal eye-protection
AS/NZS	Joint Australian New Zealand Standard
CAS#	Chemical Abstract Service number (a unique identifier for chemicals)
CCID	Chemical Classification and Information Database
HSNO	(New Zealand) Hazardous Substances and New Organisms Act
NZIoC	New Zealand Inventory of Chemicals
NZS 5433	Transport of Dangerous Goods on Land
WES	Workplace Exposure Standard

Prepared with reference to: *Preparation of Safety Data Sheets, Approved Code of Practice under the HSNO Act [COP 8-1]*, New Zealand Chemical Industry Council Sep 2006

### SUPPLIER CONTACT DETAILS

Tech Coatings Ltd.  
www.techcoatings.co.nz  
technical@techcoatings.co.nz

### DATE OF ISSUE:

7 September 2023  
Version: 2.0

Revision Information: SDS may be revised from time to time, please ensure you have a current copy. This revision: Updated to meet New Zealand requirements. Previous revision dated: 1st December 2017

### DISCLAIMER:

This safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal use of the product described herein. Health and safety precautions in the data sheet may not be adequate for all individuals and/or situations. Users have the responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations. Whilst the information contained in this document is based on data, which, to the best of our knowledge, was accurate and reliable at the time of preparation, no warranty or responsibility can be accepted by us for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information.

**END OF SAFETY DATA SHEET (SDS)**