



# FLIGHTBLOO™ LAVATORY FLUID CONCENTRATE

## SAFETY DATA SHEET

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	FlightBloo™ – Aircraft Lavatory Fluid Concentrate
<b>General or Generic ID:</b>	Water solution with borax and blue dye.
<b>Manufacturer's Name (same as Supplier):</b>	Inland Technologies International Ltd. P.O. Box 253, 14 Queen Street Truro, Nova Scotia B2N 5C1 Canada Phone: (877) 633-5263
<b>Technical Contact:</b>	amcleod@inlandgroup.ca
<b>Marketing Contact:</b>	bpace@inlandgroup.ca
<b>Recommended Use:</b>	Aircraft lavatory fluid with Inland antifreeze additive.
<b>Restricted Use:</b>	Not known.
<b>Emergency Telephone:</b>	CANUTEC: (888) 226-8832 (US & Canada)

### SECTION 2. HAZARDS IDENTIFICATION

**Hazard Classification:**

**Health Hazards:** Toxic if ingested/consumed. Eye irritation.

**Label Elements:**

**Hazard Symbol:** Not Applicable.

**Signal Word:** Harmful if swallowed.

**Hazard Statement:** Causes serious eye irritation.

**Precautionary Statements:** **Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.  
**Response:** IF EXPOSED: Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  
**Storage:** Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Secure all containers.  
**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other Hazards Which  
Do Not Result in GHS  
Classification:** None



### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Identity:</u>	<u>Common Name and Synonyms:</u>	<u>CAS Number:</u>	<u>Content in Percent (%):</u>
Water	H <sub>2</sub> O, Water	7732-18-5	99%
Sodium Tetra-Borate	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> , Borax	1303-96-4	<1%

### SECTION 4. FIRST AID MEASURES

<b>General Information:</b>	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in advance.
<b>Ingestion:</b>	Call a physician or poison control center immediately. Do NOT induce vomiting without advice from poison control center. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content does not get into lungs.
<b>Inhalation:</b>	Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
<b>Skin Contact:</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye Contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

#### Most Important Symptoms/Effects, Acute and Delayed:

**Symptoms:** May irritate eyes. Harmful if swallowed.

#### Indication of Immediate Medical Attention and Special Treatment Needed:

**Treatment:** Treat symptomatically. Symptoms may be delayed.

### SECTION 5. FIRE FIGHTING MEASURES

<b>General Fire Hazards:</b>	In case of fire and/or explosion, do not breathe fumes.
<b>Extinguishing Media:</b>	<b><i>Suitable Extinguishing Media:</i></b> Water spray, foam, dry powder or carbon dioxide. <b><i>Unsuitable Extinguishing Media:</i></b> Not applicable.
<b>Special Hazards Arising from the Substance or Mixture:</b>	Fire may produce irritating, corrosive and/or toxic gases.
<b>Special Protective Equipment and Precautions for Firefighters:</b>	<b><i>Special Firefighting Procedures:</i></b> Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. <b><i>Special Protective Equipment for Firefighters:</i></b> Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency Procedures:</b>	Use personal protective equipment, including anti-slip footwear. Keep unauthorized personnel away. Keep up-wind. Ventilate closed spaces before entering them.
<b>Methods and Material for Containment and Cleaning:</b>	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Notification Procedures:** Prevent entry into waterways, sewers, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved. This product biodegrades easily, but appropriate sewer approvals are required in advance.
- Environmental Precautions:** Do not contaminate water sources. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, watercourses or onto the ground.

## SECTION 7. HANDLING AND STORAGE

- Precautions for Safe Handling:** Use personal protective equipment as required. Do not breathe mist or vapour. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.
- Conditions for Safe Storage (including any incompatibilities):** Keep container tightly closed. Store in well-ventilated place. Store in a dry place. Store in a locked or controlled access area.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters:

### Occupational Exposure Limits:

<u>Chemical Identity:</u>	<u>Type:</u>	<u>Exposure Limit Values:</u>	<u>Source:</u>
Water	No data available.	No data available.	No data available.
Sodium Tetra-Borate	Ceiling	10 mg/m <sup>3</sup> for dusts	ACGIH TLV

**Engineering Controls:** Maintain sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLVs.

### Exposure Controls/Individual Protection Measures, Such as Personal Protective Equipment:

- General Information:** Good general ventilation (typically 10 air exchanges per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
- Respiratory Protection:** In case of inadequate ventilation, use suitable respirator. Chemical respirator with organic vapour cartridge, full face-piece, dust and mist filter.
- Eye/Face Protection:** Wear safety glasses with side shields (or goggles).
- Skin Protection:**  
**Hand:** Chemical resistant gloves.  
**Other:** Wear suitable protective clothing.
- Hygiene Measures:** Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Avoid contact with eyes, skin and clothing.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	<i>Physical State:</i> Liquid <i>Form:</i> Liquid <i>Colour:</i> Blue
<b>Odour:</b>	Sweet
<b>Odour Threshold:</b>	No data available.
<b>pH:</b>	7–9
<b>Melting Point/Freezing Point:</b>	0 °C (32 °F)
<b>Initial Boiling Point and Boiling Range:</b>	100 °C (212 °F)
<b>Flash Point:</b>	Non-flammable
<b>Evaporation Rate:</b>	0.01
<b>Flammability (solid/gas):</b>	No data available.
<b>Upper/Lower Limit on Flammability or Explosive Limits:</b>	<i>Flammability Limit</i> – upper (%): Not Applicable. <i>Flammability Limit</i> – lower (%): Not Applicable. <i>Explosive Limit</i> – upper (%): No data available. <i>Explosive Limit</i> – lower (%): No data available.
<b>Vapor Pressure:</b>	0.06 mmHg @ 20 °C
<b>Vapor Density (AIR = 1):</b>	2.1
<b>Relative Density:</b>	1.1 (20 °C)
<b>Solubility:</b>	<i>Solubility in Water:</i> Miscible with water. <i>Solubility (other):</i> No data available.
<b>Partition Coefficient (n-octanol/water):</b>	1.00
<b>Auto-ignition Temperature:</b>	Not Applicable.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity (20 °C):</b>	No data available.
<b>Other Information:</b>	<i>Minimum Ignition Temperature:</i> Not Applicable. <i>Molecular Weight:</i> 25 g/mol (H <sub>2</sub> O, borax salt, dye)

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No dangerous reactions known under conditions of normal use.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Excessive heat. Contact with incompatible materials – strong oxidizing agents and acids.
<b>Incompatible Materials:</b>	Strong oxidizing agents. Acids.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may release oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure:

<b>Ingestion:</b>	Harmful if swallowed.
<b>Inhalation:</b>	Spray mist may irritate the respiratory system.
<b>Skin Contact:</b>	May cause irritation.
<b>Eye Contact:</b>	Causes serious eye irritation.

### Information on Toxicological Effects:

#### Acute Toxicity:

<b>Acute Toxicity:</b>	<i>Oral:</i> No data available. <i>Dermal:</i> No data available. <i>Inhalation:</i> No data available.
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**Repeated Dose Toxicity:** No data available.

**Skin Corrosion/Irritation:** Defatting, drying and cracking of skin.

**Serious Eye Damage/Eye Irritation:** May irritate eyes.

**Respiratory or Skin Sensitization:** Not a skin sensitizer.

**Carcinogenicity:** This substance has no evidence of carcinogenic properties.

**Germ Cell Mutagenicity:** *In Vitro:* No mutagenic components identified.  
*In Vivo:* No mutagenic components identified.

**Reproductive Toxicity:** Unknown

**Specific Target Organ Toxicity (single exposure):** Central nervous system, kidneys.

**Specific Target Organ Toxicity (repeated exposure):** None known.

**Aspiration Hazard:** Not classified.

**Other Effects:** None known.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

#### **Acute Hazards to the Aquatic Environment – Borax/pH Change**

<b>Fish:</b>	No data available.
<b>Aquatic Invertebrates:</b>	No data available.

### Chronic Hazards to the Aquatic Environment:

<b>Fish:</b>	No data available.
<b>Aquatic Invertebrates:</b>	No data available.
<b>Toxicity to Aquatic Plants:</b>	No data available.

### Persistence and Degradability:

**Biodegradation:** This product is biodegradable.

## SECTION 12. ECOLOGICAL INFORMATION

<b>BOD and COD Ratio:</b>	1:1.6
<b>Mobility in Soil:</b>	The product is water soluble and may spread in water systems.
<b>Other Adverse Effects:</b>	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## SECTION 13. DISPOSAL CONSIDERATION

<b>Disposal Instructions:</b>	Discharge, treatment, or disposal may be subject to national, state, or local laws.
<b>Contaminated Packaging:</b>	Since emptied containers can retain product residue, follow label warnings even after container is emptied.

## SECTION 14. TRANSPORT INFORMATION

<b>Canadian Transportation of Dangerous Goods Act:</b>	Not regulated.
<b>US DOT:</b>	Not regulated.
<b>IMDG:</b>	Not regulated.
<b>IATA:</b>	Not regulated.

## SECTION 15. REGULATORY INFORMATION

### Canadian Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

**WHMIS Classification:** Toxic if ingested.

### United States Federal Regulations:

<b>Toxic Substance Control Act (TSCA) Status:</b>	The intentional ingredients of this product are listed.	
<b>CERCLA RQ – 40 CFR 302.4(a):</b>	Materials without a “listed” RQ may be reportable as an “unlisted hazardous substance”. See 40 CFR 302.5(b).	
<b>CERCLA RQ – 40 CFR 302.4(b):</b>	Unknown	
<b>SARA 302 Components – 40 CFR 355 Appendix A:</b>	None	
<b>Section 311/312 Hazard Class – 40 CFR 370.2:</b>	<i>Fire:</i> No <i>Pressure Generating:</i> No <i>Reactive:</i> No <i>Immediate (Acute):</i> No <i>Delayed (Chronic):</i> Yes	

### **SARA 313 Components – 40 CFR 372.65:**

<u>Section 313 Component(s):</u>	<u>CAS Number:</u>	<u>Percent (%):</u>
Water	7732-18-5	99%
Sodium Tetra-Borate	1303-96-4	<1%



## SECTION 15. REGULATORY INFORMATION

### State and Local Regulations:

California Proposition 65:	None
New Jersey RTK Label Information:	Unknown
Pennsylvania RTK Label Information:	Unknown
Massachusetts RTK Label Information:	Unknown

## SECTION 16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

### Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
mg/m <sup>3</sup>	Milligrams per Cubic Meter
N/A	Not Applicable
NTP	National Toxicology Program
°C	Degree Celsius
°F	Degree Fahrenheit
OSHA	Occupational Safety and Health Administration
PEL	OSHA Permissible Exposure Limit
ppm	Parts Per Million
STEL	Short Term Exposure Limit
TLV	ACGIH Threshold Limit Value
TWA	Time Weighted Average
UEL	Upper Explosive Limit
UN	United Nations

Issue Date:	09-15-2016
Revision Date:	07-20-2021
Version #:	1.1
Further Information:	No data available.

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