



# OCTAGON PROCESS, INC.

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## Octagon EcoFlo

### SAE/AMS 1424 TYPE I AIRCRAFT DEICING FLUID

Octagon's new type I fluid, **EcoFlo**, is a hybrid Propylene Glycol:Non Glycol based AMS 1424 deicing fluid. EcoFlo handles and behaves like conventional PG based deicers, while providing lower BOD<sub>5</sub> and COD values.

**EcoFlo** is ideal for airports looking to reduce municipal wastewater costs by decreasing BOD. The combination of lower BOD and low Aquatic Toxicity equate to lower disposal costs for spent fluid.

**EcoFlo** is the only type I fluid that lowers your BOD, reduces your carbon footprint, and helps you save money.

#### BENEFITS OF ECOFLO

- Reduced level of Glycol
- 35% Lower BOD<sub>5</sub>
- 25% Lower COD
- Low Aquatic Toxicity
- Excellent Surface Wetting
- Low Foam
- Triazole Free
- No NPE Surfactants

#### STORAGE AND HANDLING

- **No Special Requirements**  
EcoFlo can be used in the same manner as traditional glycol based type I fluids – you will not notice a difference.
- **Flexible Storage Options**  
EcoFlo can be stored in any container you store your current type I fluid in: from mild steel tanks to plastic totes.

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## Octagon EcoFlo Physical Characteristics

pH	Refractive Index	Specific Gravity	Flash Point
7.2 – 8.2	1.4375 – 1.4405	1.14 at 25°C	Above 100°C

Lowest Operational Use Temperature	Surface Tension
-23°F (-30.5°C) for 65:35 dilution	37 – 47 Dynes/cm

Freezing Point - Concentrate	Freezing Point - 50:50
-15°F (-26°C)	-15°F (-26°C)

Biological Oxygen Demand	Chemical Oxygen Demand
0.39 kg O <sub>2</sub> / kg of Fluid at 20°C	1.20 kg O <sub>2</sub> / kg of Fluid

Aquatic Toxicity			
		Concentrate Fluid	50:50 Dilution
Fathead Minnow	48 Hr LC <sub>50</sub> :	16,875 mg/L	33,750 mg/L
Daphnia Magna	48 Hr LC <sub>50</sub> :	18,500 mg/L	37,000 mg/L

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## Octagon EcoFlo SAE/AMS 1424 Type I Deicing Fluid

### DILUTION TABLE SHOWING LOWEST OPERATIONAL USE TEMPERATURE (LOUT)

DILUTION EcoFlo : Water	REFRACTIVE INDEX ± 0.0015	BRIX ±0.75	FREEZING POINT	LOUT
100 : 00	1.4390	58.75	-26°C -15°F	DO NOT USE
65 : 35	1.4055	42.75	-42°C -44°F	-30.5°C -23°F
60 : 40	1.4005	40.25	-39°C -38°F	-29°C -20°F
55 : 45	1.3953	37.75	-33°C -27°F	-23°C -9°F
50 : 50	1.3892	39.75	-26°C -15°F	-16°C +3°F
45 : 55	1.3837	31.50	-22°C -8°F	-12°C +10°F
40 : 60	1.3782	28.25	-18°C 0°F	-8°C +18°F
35 : 65	1.3725	25.00	-14°C +7°F	-4°C +11°F
30 : 70	1.3667	21.75	-10°C +14°F	0°C +32°F
25 : 75	1.3610	18.25	-8 °C +18°F	0°C +32°F
20 : 80	1.3555	15.00	- 6°C +21°F	0°C +32°F
10 : 90	1.3442	7.75	- 3°C +27°F	0°C +32°F

Note: Octagon Process, Inc. recommends the use of a 10°C (18°F) Freezing Point Buffer below the Outside Air Temperature (OAT), however, for deicing ARP 4737 allows for the freezing point of the Fluid to be 3°C (5°F) above the OAT. Consult your Winter Operations manual for proper use of this fluid.

The LOUT's listed are for Large Transport type jet aircraft. To obtain the LOUT's for Low Rotation speed aircraft, please contact Octagon Process.