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# **FCY-1Bio<sup>+</sup> Aircraft Deicing/Anti-icing Fluid (SAE Type I) Instruction**

**Chengdu P.R. China**

**NEWAVE AEROCHEMICAL Co., Ltd.**

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## 1. Introduction

FCY-1Bio+ is a glycol-based SAE Type I aircraft de-icing ,and for de-icing and anti-icing of aircraft surfaces in winter ice, snow and frost climates, providing good aerodynamic conditions for safe take-off in winter.

## 2. Product name

FCY-1Bio+ Aircraft Deicing/Anti-icing Fluid (SAE Type I)

## 3. Chemical Structure Formula

Not Applicable.

## 4. Physicochemical Properties

pH (20°C)	9.2 ±0.5(ASTM E70)
Refractive Index (20°C) Specific Gravity(20°C)	1.4153± 0.0015(ASTM D1747)
Flash Point	1.103±0.015( ASTM D891)
Freezing Points	No flash to 100°C(ASTM D1177)
	-28.0±3°C (50/50, v/v)(ASTM D1177)

## 5. Specification of Quality 5.1

### Carried Standard

AMS 1424R.

### 5.2 Technical Data

Appearance	Orange liquid
Lowest Operational Use Temperature (LOUT)	
	50% by Volume -18 °C
	75% by Volume -40 °C(High Ramp)

### 5.3 Package And Standard

Plastic barrel.  
210kg,1050kg / barrel.

### 5.4 Shelf Life

2 years under correct storage and sealed.

### 5.5 Product Discard Disposal Method

All disposal should be carried out in accordance with state and local requirements.

## 6. Main Materials

Ethylene glycol, Water, Thickener, Surfactant, Corrosion inhibitor.

## 7. Production Methods And Processes

Production methods: mixing method

Processes: Mix in groups, min in total

## 8. Uses And Usage

a. **Uses:**FCY-1Bio<sup>+</sup> for de-icing and anti-icing of aircraft surfaces in winter ice, snow and frost conditions.

b. **Usage:**FCY-1Bio<sup>+</sup> is used, please observe the MH/T 3011.19 standard and the de-icing and anti-icing methods provided by the aircraft manufacturer for different types of aircraft, and refer to the latest de-icing information issued by the relevant international organizations when using it.

### c. Not:

1) Do not mix aircraft de/anti-icing fluids of different manufacturers and different trademarks.

2) It is recommended to take the necessary labor protection measures when using FCY-1Bio<sup>+</sup>.

3) To lessen shear degradation, use diaphragm pumps in loading and unloading. Keep away from contaminated and exposed to ultraviolet light when stored. Having any questions, please contact with us.

4) To ensure proper use, the user has any questions about this product, please contact us.

## 9. Storage And Transportation Conditions

a. **Packing mark:** Each batch of products should have a quality inspection report, and there should be clear and firm marks on the packaging bag, including product trademark, name, lot number, net weight, implementation standard and so on.

b. **Storage:** Store in a cool and airtight place, away from direct sunlight and ultraviolet rays. It is strictly prohibited to store with oxidizing, acidic, alkaline, corrosive and other substances.

c. **Storage and handling :** It is a stable chemical product, non-corrosive, non-flammable, non-explosive, suitable for various forms of transportation.

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## 10. Fire, Explosion, Shock, Radiation And Corrosion Measures

Not applicable

## 11. Service

- a. If the customer has any objection to the receipt of the products, it shall raise the objection within one month after the receipt of the products, and both parties shall settle the matter through negotiation. Unsealed products, our company does not do quality assurance
- b. If you have any other questions, please contact us.

## 12. Other Information

In the normal operation conditions, if the consumers comply with the instruction provided by the manufacturer, the product does no damage to aircraft materials

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