

Safewing® MP III 2031 ECO

General Product Information



Exactly your chemistry.

Clariant is the global leader in aircraft and runway de-icing products with over 40 years of experience. Our outstanding expertise in business relationships, product service, logistics and our world class research team make Clariant's Safewing® and Safeway® products your preferred choice in the aviation business.

Safewing® MP III 2031 ECO SAE Type III Aircraft De-icing/Anti-icing Fluid



Benefits at a Glance

- Extended Holdover Time at all weather conditions
- Increased Holdover Time compared to Type I fluids
- Low viscosity profile allows fluid to flow off at low take-off speeds
- Low residue formulation maximizes fluid elimination and minimizes the formation of re-hydrated residues
- Outstanding shear stability enables compatibility with most spraying cars and spray nozzles
- Fully biodegradable additive package, low surfactant content and triazole-free formulation gives superior environmental profile

Product Description

- Safewing® MP III 2031 ECO is a revolutionary de-/anti-icing fluid designed for use on low rotation speed aircrafts as well as large transport jets. This propylene glycol based Type III fluid can be applied hot or cold, neat or diluted
- Safewing® MP III 2031 ECO provides longer holdover times than Type I
- Safewing® MP III 2031 ECO is approved according to AMS 1428

Performance

Holdover Time: Safewing® MP III 2031 ECO is a very low viscous thickened fluid with similar characteristics, but greatly improved holdover times compared to Type I fluids.

Flow-off properties: Due to its low viscosity profile, Safewing® MP III 2031 ECO eliminates both from large transport jets and low rotation speed aircrafts leaving a minimum of fluid residue after take-off on the surfaces.

Handling

Thickened Fluids are heat-sensitive. It is recommended to restrict the temperature of standby storage heaters to 60 °C.

Special care has to be taken not to cause fluid damage due to local overheating by use of high capacity heating elements.

Safewing® MP III 2031 ECO is extremely shear stable and can be used across a wide range of spraying cars including most Type I trucks. There is no need to invest into Type II or IV spraying equipment.

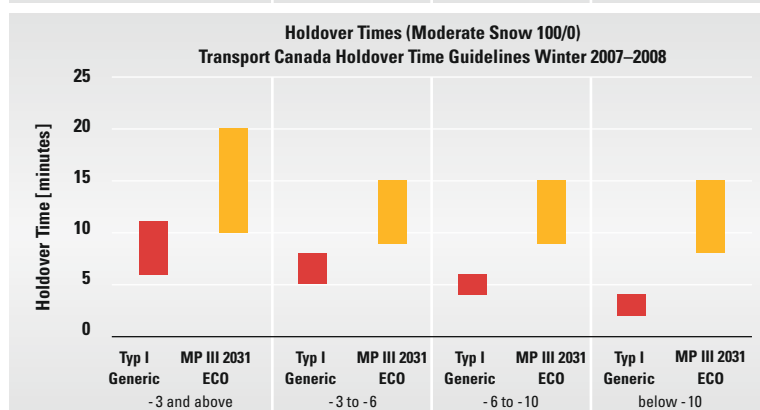
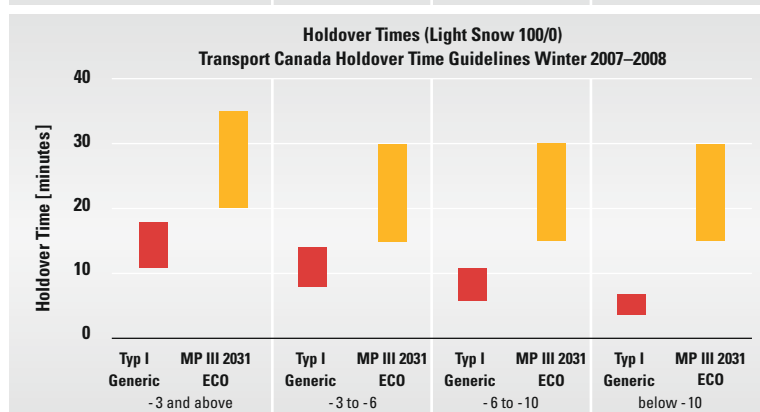
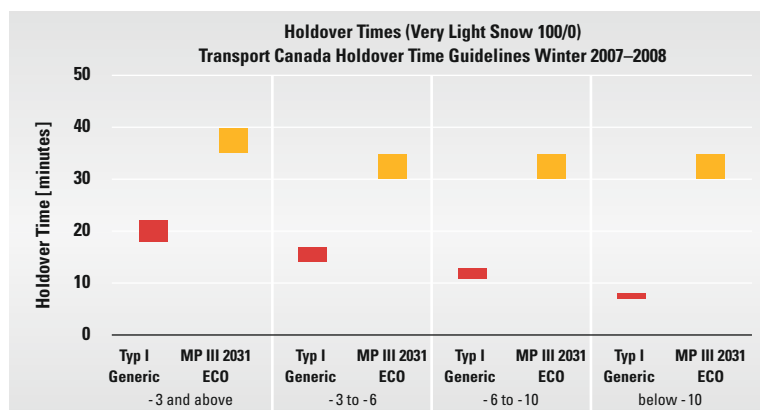
Certification and Approvals

Safewing® MP III 2031 ECO is certified according to the international standard AMS 1428.

In Service Limits

Viscosities at 20 °C (LV 2, 0,3 rpm)	
In service limits	30 -325 mPa·s
Sales specification	175 -325 mPa·s
LOUT	
Neat fluid - high speed ramp	- 29 °C
Neat fluid - low speed ramp	- 16.5 °C
Diluted 75 : 25 with water	- 14 °C
Diluted 50 : 50 with water	- 3 °C

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.



Product Properties

Chemical Composition	50 % propylene glycol
Appearance	bright yellow liquid
Refractive Index (20 °C)	1.389 - 1.392
pH (neat) at 20 °C	7.0 - 7.5

For sales to customers located within the United States and Canada the following applies in addition: NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE.

® Product and service marks protected by Clariant in many countries
© 2011 Clariant International Ltd., Rothausstrasse 61, 4132 Muttenz, Switzerland



Clariant International Ltd

www.aviation.clariant.com
www.clariant.com

Clariant International Ltd
Rothausstrasse 61
4132 Muttenz
Switzerland

BU ICS

Contacts

Technical: +49-8679-75214

Commercial: +41-61-469-7833