

Liquid runway de-icing fluid
SAFEWAY® KA HOT



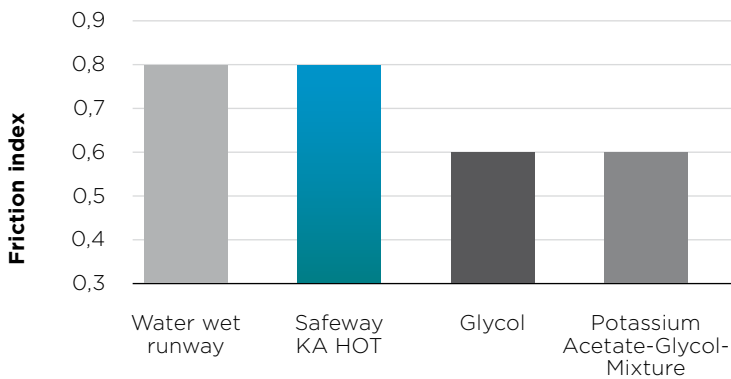
SAFEWAY® KA HOT

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®, Max Flight™, Octaflo™ and Safeway® products your preferred choice in the aviation business.

Safeway® KA HOT is an advanced acetate based runway de-icing solution. The HOT formulation gives the fluid an outstanding wetting performance, ensuring maximum surface coverage, optimizing friction values and de-/ anti-icing performance, as well as reducing corrosion and environmental impact.

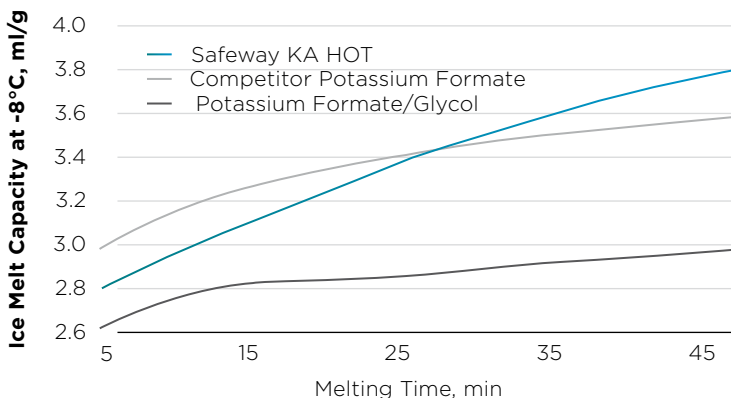
MAXIMIZED RUNWAY FRICTION

The aim of all de-icers is to maximize the runway friction during all plane movements at airports. Safeway® KA HOT provides best friction values as shown below.



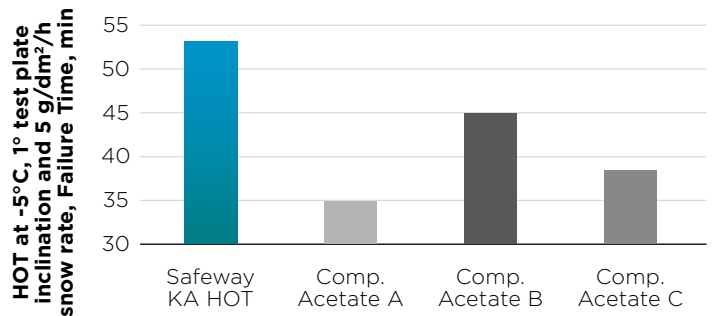
INCREASED EFFICIENCY

The ability of a fluid to melt ice is critical to de-icer performance. The more ice a fluid can melt, the more effectively it will perform in its role as a de-icer. This characteristic can be demonstrated as ice melting capacity. The Safeway® KA HOT formulation provides a superior ice melting capacity, as shown below.



EXTENDED ENDURANCE TIME

The HOT formulation results in an even coating of the fluid on the runway surface. This helps to prevent the build up of ice occurring between micro-droplets of sprayed fluid. A uniform surface coating increases anti-icing performance and also facilitates the mechanical removal of ice/slush during winter operations. Safeway® KA HOT, tested in artificial snow with NCAR Snow Maker of APS Aviation Inc., shows a clear holdover time benefit.



COMMERCIAL BENEFITS

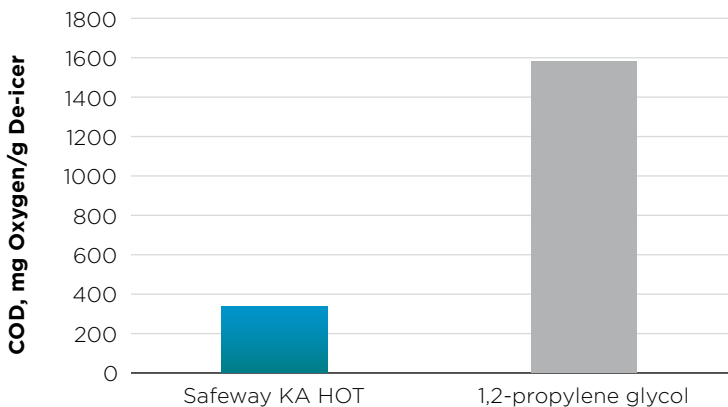
Extended endurance times and ease of ice/slush removal optimizes time, personnel, fuel and operational costs. During periods of precipitation every minute the runway surface maintains its friction performance is absolutely vital. Using the right fluid during winter operations will optimize airport traffic and minimize costly delays. The optimized environmental profile of Safeway® KA HOT helps reducing the costs of expensive runway effluent treatment.

SAFEWAY® KA HOT



ENVIRONMENTAL BENEFITS

New and developing environmental legislation requires that airports manage their effluent streams and ensure minimal environmental impact. Safeway® KA HOT has a significantly lower chemical oxygen demand than its organic counterparts, e. g. glycol based formulations and urea. Decreasing the COD greatly reduces the cost of effluent treatment at the airport.



ADDITIONAL BENEFITS

- Chloride, nitrate, nitrite, triazole free
- Low toxicity to flora and fauna
- Helps airports meet ecological requirements
- Readily biodegradable

IMPROVED CORROSION PROTECTION

Safeway® KA HOT maximizes material compatibility due to the unique corrosion inhibitor system, fulfilling and exceeding the global standard as defined by SAE AMS 1435.

PRODUCT PROPERTIES

Chemical Composition	approx. 50% aqueous potassium acetate
Appearance	clear liquid
Density (20 °C)	approx. 1.28 g/cm ³
pH (as is)	9.0 - 11.4

CERTIFICATIONS AND APPROVALS

Safeway® KA HOT is certified to the latest version of the international standard AMS 1435.

APPLICATION

Safeway® KA HOT can be applied using conventional spray trucks. The amount of Safeway® KA HOT must be adjusted according to the weather situation and runway condition.

DELIVERY & STORAGE

Safeway® KA HOT is available in bulk tank trucks and IBC containers. It can be stored in tanks made of stainless steel, alkaline resistant plastic or mild steel coated with synthetic resin. Always use properly labelled tanks to prevent potential contamination.

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

Contact Europe

Clariant International Ltd
BU Industrial & Consumer Specialties
Rothausstrasse 61, CH-4132 Muttenz

Commercial: +44 1454 411 789
Technical: +49 8679 752 14

Contact USA

Clariant Corporation
BU Industrial & Consumer Specialties
625 East Catawba Ave
Mt Holly, NC 28120

Commercial: +1 704 822 2677
Technical: +1 704 822 2184

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.

***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.

® Trademark of Clariant registered in many countries
© 2013 Clariant International Ltd

