Solid runway de-icing fluid
SAFEWAY® SF
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® SF is an advanced sodium formate based runway and apron de-icing solid. The formulation makes Safeway® SF an extremely effective and easy applicable de-/anti-icing product that gives long-term protection against snow, slush and ice.

**MAXIMIZED ICE PENETRATION**
The ability of solid de-icers to penetrate through ice layers and undercut them is very important. This is reflected by the ice penetration ability. Safeway® SF provides excellent ice penetration, as shown below.

**INCREASED EFFICIENCY**
The characteristic can be demonstrated as ice melting capacity. The Safeway® SF formulation provides an excellent ice melting capacity, as shown below.

**LOWER FREEZING POINT**
During precipitation applied runway de-icers are diluted and, thus, the freezing point of the solution on the runway increases. Which results in earlier re-freezing. Therefore, solid de-icers need to show a good freezing-point depression, as shown below.

**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 excellent environmental profiles of Safeway® SF helps reducing the costs of expensive runway effluent treatment.
ENVIRONMENTAL BENEFITS
New and developing environmental legislation requires that airports manage their effluent streams and ensure minimal environmental impact. The formate formulation has considerably less COD than glycol and urea based products and about one third the COD of acetate based de-icers.

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

IMPROVED CORROSION PROTECTION
Safeway® SF maximizes material compatibility due to the unique corrosion inhibitor system, fulfilling and exceeding the international standard AMS 1431.

PRODUCT PROPERTIES
- Chemical Composition: approx. 98 % sodium formate
- Appearance: white solid
- Bulk density: approx. 941 kg/m³
- pH (50 g/l at 20°C): approx. 11.5

CERTIFICATIONS AND APPROVALS
Safeway® SF is certified to the latest version of the international standard AMS 1431.

APPLICATION
Safeway® SF can be applied using conventional spreaders. The amount of Safeway® SF must be adjusted according to the weather situation and runway conditions.

DELIVERY & STORAGE
Safeway® SF is available in 1000 kg, 500 kg and 25 kg bags. In order to avoid sticking always use properly labeled tanks to prevent possible contamination.
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