



EUROPEAN AVIATION SAFETY AGENCY
AGENCE EUROPÉENNE DE LA SÉCURITÉ AÉRIENNE
EUROPÄISCHE AGENTUR FÜR FLUGSICHERHEIT

| 10TH ANNIVERSARY |

EASA Safety Conference 2013

Chemical effects of runway de-icers:
Damage of carbon brakes and other
aircraft parts.

Cologne, 16th October 2013

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Introduction

- In winter operation, airports are obliged to use environmental friendly runway de-icer fluids (RDF) applying the BAT-principle
- Led to the development and broad usage of alkali-metal based RDF
- Aircraft in-service reports show increasing number of damages to assemblies caused by afore mentioned RDF's:
 - Cadmium and Aluminium Corrosion
 - Corrosion of Landing Gear Joints
 - Wire Insulation / Connector degradations
 - Catalytic Oxidation of Carbon Brakes
- Multi-disciplinary Working Group SAE G-12RDF



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