

What comes in and goes out
– the SAS Group’s most significant environmental aspects¹

<div>IN</div> <div>SAS's responsibility</div> <div> Jet fuel Engine oil Halons </div>	<div>In the air</div> 	<div>SAS's responsibility</div> <div> Carbon dioxide (CO₂) Nitrogen oxides (NO_x) Unburnt hydrocarbons (HC) Volatile organic compounds (VOC) Oil aerosols Jettisoned fuel Noise Water vapor (H₂O) Sulfur dioxide (SO₂) Carbon monoxide (CO) Halons (CFC)² </div> <div> <div>Emmissions to</div> <table> <tr> <th>Air</th><th>Ground</th><th>Water</th></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>(○)</td><td>(○)</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> </table> </div> <div>OUT</div>	Air	Ground	Water	●	○	○	●	○	○	●	○	○	●	○	○	●	○	○	●	(○)	(○)	●	○	○	●	○	○	●	○	○	●	○	○	●	○	○			
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<div>IN</div> <div>SAS's responsibility</div> <div> Food and beverages Packaging Disposable/semidisposable items Articles for sale Newspapers Chlorinated water Germicides </div>	<div>Onboard</div> 	<div>SAS's responsibility</div> <div> Organic waste Waste Unopened packaging Waste and recycling Lavatory waste Germicides </div> <div> <div>Emmissions to</div> <table> <tr> <th>Air</th><th>Ground</th><th>Water</th></tr> <tr><td>○</td><td>●</td><td>○</td></tr> <tr><td>○</td><td>●</td><td>○</td></tr> <tr><td>○</td><td>●</td><td>○</td></tr> <tr><td>○</td><td>●</td><td>○</td></tr> <tr><td>○</td><td>○</td><td>●</td></tr> <tr><td>○</td><td>○</td><td>●</td></tr> </table> </div> <div> <div>Airport-owner responsibility</div> <table> <tr><td>○</td><td>○</td><td>●</td></tr> <tr><td>○</td><td>○</td><td>●</td></tr> </table> </div> <div>OUT</div>	Air	Ground	Water	○	●	○	○	●	○	○	●	○	○	●	○	○	○	●	○	○	●	○	○	●	○	○	●												
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<div>IN</div> <div>SAS's responsibility</div> <div> Glycols Water Maintenance supplies Energy Vehicle fuel Office supplies Chemicals Solvents Equipment Work clothes and uniforms </div> <div> <div>Airport-owner responsib.</div> <div>Urea/Acetate</div> </div>	<div>On the ground</div> 	<div>SAS's responsibility</div> <div> Waste Hazardous waste Waste water, incl. flooded water Sulfur dioxide (SO₂), Carbon dioxide (CO₂) Nitrogen oxides (NO_x), HC Soot och particulates, VOC Heavy metals³ Recycling Particles </div> <div> <div>Emmissions to</div> <table> <tr> <th>Air</th><th>Ground</th><th>Water</th></tr> <tr><td>○</td><td>●</td><td>○</td></tr> <tr><td>○</td><td>●</td><td>●</td></tr> <tr><td>○</td><td>○</td><td>●</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> <tr><td>○</td><td>○</td><td>○</td></tr> <tr><td>○</td><td>●</td><td>●</td></tr> <tr><td>○</td><td>○</td><td>○</td></tr> <tr><td>●</td><td>○</td><td>○</td></tr> </table> </div> <div> <div>Airport-owner responsibility</div> <table> <tr><td>○</td><td>●</td><td>●</td></tr> <tr><td>○</td><td>●</td><td>(○)</td></tr> <tr><td>○</td><td>○</td><td>●</td></tr> </table> </div> <div>OUT</div>	Air	Ground	Water	○	●	○	○	●	●	○	○	●	●	○	○	●	○	○	○	○	○	○	●	●	○	○	○	●	○	○	○	●	●	○	●	(○)	○	○	●
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1. Definitions in the table of what we emit are immediate emissions.
2. Civil aircraft operation is allowed to use halon 1301 and 1211 for fire protection under critical use clauses, where no alternative substances are yet certified. Research on alternatives is ongoing.
3. Heavy metals such as cadmium and chromium are used as alloys and very small amounts can be cast off during washing and rainy weather, which during aircraft maintenance is confined in the closed sewage systems in the hangars. The process is strictly regulated through measurements and approval from municipalities.