

**SPERC factsheet – Professional use of lubricant and greases in open systems**

<b>General Information</b>	
<b>Title of Specific ERC</b>	Professional use of lubricants and greases in open systems.
<b>Applicable ERC</b>	8a, 8d
<b>Responsible</b>	ATIEL-ATC
<b>Version</b>	V1
<b>Code</b>	ATIEL-ATC SPERC 8.Cp.v1
<b>Scope</b>	<p>Covers professional use of lubricants and greases in open systems, including application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways. Includes associated product storage, material transfers, sampling and maintenance activities.</p> <p><i>Substance Domain:</i> Applicable to typical constituents of lubricants and metal working fluids</p>
<b>Coverage</b>	<p>Sectors of Use: SU 22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)</p> <p>Process Categories: PROC 1 (Use in closed process, no likelihood of exposure), PROC 2 (Use in closed, continuous process with occasional controlled exposure), PROC 8a (Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities), PROC 10 (Roller application or brushing) PROC 11 (Non industrial spraying) PROC 13 (Treatment of articles by dipping and pouring)</p>

	<b>Characteristics of specific ERC</b>	<b>Type of Input Information</b>	<b>Processing of Input Information</b>
<b>Operational Conditions</b>	Negligible wastewater emissions as process operates without water contact. [OOC20] Professional product use leading to limited emissions to air. Professional product use leading to limited disposal via the wastewater.		
<b>Obligatory onsite RMM</b>			
<b>Substance Use Rate</b>	0.05% (no geographical or temporal peaks in use) of Regional Tonnage based on default standard town population of 10000 inhabitants	Based on sector knowledge of volume information	None
<b>Days Emitting</b>	365 days/year	Default approach of the REACH guidance <sup>1</sup>	None
<b>Environmental Parameters for Fate Calculation</b>	Local freshwater dilution factor : 10 [EF1] Local marine dilution factor : 100 [EF2] Receiving surface water flow is 18000 m <sup>3</sup> /d [EF3]	ERC default settings <sup>2</sup>	These values can be scaled with site specific data

<sup>1</sup> ECHA Guidance on information requirements and chemical safety assessment, Chapter R.16: Environmental Exposure Estimation, Section R.16.3.2

<sup>2</sup> ECHA Guidance on information requirements and chemical safety assessment, Chapter R.16: Environmental Exposure Estimation, Section R.16.6.3

	<b>Characteristics of Specific ERC</b>		<b>Justification</b>
<b>Emission Fractions</b>	<b>To Air</b>	1 E-04 for RDS with vapour pressure < 1 Pa  5 E-04 for RDS with vapour pressure > 1 Pa	Default assumptions taken from EUTGD, 2003: Table A3.8 <sup>3 3</sup>
	<b>To Municipal Wastewater/Sewer/ Water courses</b>	5 E-04	Default assumptions taken from EUTGD, 2003: Table A3.8 <sup>3</sup>
	<b>To Soil</b>	1E-03	Default assumptions taken from EUTGD, 2003: Table A3.8 <sup>3</sup>

<sup>3</sup> European Commission Technical Guidance Document on Risk Assessment (EUTGD) Part 2 - 2nd Edition (2003). Appendix 1 Mineral Oil and Fuel Industry, Table A3.8.

	Type of RMM	Typical Efficiency
Appropriate Risk Management Measures (RMM) that may be used to achieve required emission reduction	<b>Air</b>	
	<i>Local/Onsite Technology</i>	None specified
	<b>Water</b>	
	<i>Offsite Technology</i> Municipal wastewater treatment plant	Waste water is assumed to be discharged via public sewer system.
	<i>Local/Onsite Technology</i>	None specified

**Safe Use**

**Communication in SDS**

The REACH registrant establishes a set of standard conditions of safe use for a substance by adopting the conditions specified in this SPERC and recommending a Required Removal Efficiency (RRE) for adequate risk reduction. If  $RRE = 0$ , wastewater emission controls (beyond those specified by the operational conditions) are not required to ensure safe use of the substance. If  $> 0$ , the RRE may be achieved via offsite municipal sewage treatment (providing substance removal efficiency,  $RE_{\text{Offsite}}$ ).

Removal efficiency requirements, as dictated by the assumed operating conditions, are documented in the Chemical Safety Report and communicated in the Safety Data Sheet.

**Scaling**

Not applicable for wide dispersive uses.

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