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## Biodegradable lubricant for switches

RIVOLTA S.K.D. 3800 is a fully synthetic, environment-friendly flow lubricant. A rapidly biodegradable synthetic diester oil is built in a metal soap. RIVOLTA S.K.D. 3800 is water-resistant and contains biodegradable additives to improve ageing stability, corrosion prevention as well as lubricating properties.

RIVOLTA S.K.D. 3800 is arranged in a way that the outstanding environmental acceptability is combined with a high technical efficiency.

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### The property

- outstanding environmental acceptability, extremely biodegradable
- high water resistance
- reduce friction and wear
- operative temperature range from - 35°C up to + 100°C
- suitable for processing under a variety of conditions
- no classification necessary according to the EEC directive 1999/45

### will give the following benefits

- safety in cases where design-relatedly the lubricant can get into the environment.
- in case that components are exposed to weather-influence (e.g. wet atmosphere), the lubricant will remain at the lubrication points for a long time. The functionality of the components will be preserved.
- metal contact of rolling or sliding surfaces is minimized. Service life of loaded components is increased.
- qualified for use in changing surrounding conditions because of the wide operative temperature range.
- easy to process even in very low temperatures because of a favourable yield load – temperature - response
- S.K.D. 3800 stands for a maximum of personal protection. The appropriate use of S.K.D. 3800 does not create any risks for the workers' health.

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**Rivolta S.K.D. 3800, the rapidly biodegradable lubricant for points  
with high technical efficiency**



## Biodegradable lubricant for switches

Fully synthetic grease, made of rapidly biodegradable fully synthetic diester oils with additives to improve oxidation and ageing stability, as well as corrosion prevention and wear protection properties.

Colour: grey

Odour: nearly odourless

Technical data	Unit of measurement	Norm	S.K.D. 3800
Density	g/ml	DIN 51757	0.90
Viscosity of base oil at 40°C	mm <sup>2</sup> /s	DIN 51562/1	40
NLGI-grade	-	DIN 51818	000
Worked penetration	1/10 mm	DIN ISO 2137	445-475
Operative temperature range	°C		-35 up to +100
Corrosion effect on copper	corr.-grade	DIN 51811	1
Oil separation at 40°C	%	DIN 51817	<1 after 18h
S.R.V.-test*		DIN 51834	
Friction coefficient $\mu$	-		0.11
Wear rate ball	mm		0.52
Wear rate disc	$\mu$ m		<1.50

\* Swing friction wear test, T= 100°C, F= 200N, 500.000 load changes

Ecological data			
Biodegradability	Weight %	CEC-L-33	>90

### Applications:

Switches and gliding planes in rail track systems.

### Processing:

Apply Rivolta S.K.D. 3800 evenly to the friction areas. You can apply S.K.D. 3800 manually by brush or spray can or by means of automatic processing equipment.

### Compatibility:

RIVOLTA S.K.D. 3800 is not aggressive to common metals, to plastics resistant to solvents, to lacquers and seals. Do not mix with other products.

### Preparation of lubrication point:

Remove contaminations and residues as good as possible.

This text contains facts and statements and is determined with our best knowledge and will be checked continuously. These statements are depending - among other reasons - on experiences gained in the industry. We only pass them on without liability. Before using our products you should test the applicability and you should convince yourself about the satisfactory performance. Our application examples and suggestions should not request to violate patent rights.