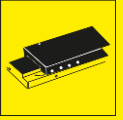


# CONDAT BIO SP Evolution

## BIODEGRADABLE GREASE for SWITCH PLATE LUBRICATION



### APPLICATIONS

"CONDAT BIO SP Evo" is a biodegradable grease intended for lubrication of bearings and moving points of track side equipment.

"CONDAT BIO SP Evo" was developed to allow for extended periods between applications – 5 weeks minimum. The application of "CONDAT BIO SP" is by means of a back carried portable unit approved as used use by SNCF.

### ADVANTAGES

Developed around synthetic base oils, "CONDAT BIO SP Evo" is biodegradable and environmentally friendly.

"CONDAT BIO SP Evo" conforms to the environmental standards CEC-L-33-A-93 and **OCDE 301B**.

**2<sup>nd</sup> generation** formula, "CONDAT BIO SP Evo" is applied in the form of a roll onto the point chair friction surfaces. The movement of the points distributes the grease.

The characteristics of "CONDAT BIO SP Evo" ensure effective operation in all climatic conditions found in West and South Europe.

"CONDAT BIO SP Evo" ensures the lubrication and

### THE KEY PRODUCT :

✓ **UV resistance enhanced**

⇒ **The plates stay clean longer**

✓ **Eco citizen concept:**

*Biodegradable and environmentally friendly, without mineral oil and using renewable raw materials*

protection of shunting elements (switches, bearings, points... etc). The changes made ensure **greater resistance to oxidation** (better resistance to the action of UV) leading to a low building deposits on the edge of plates and providing excellent recharging of lubricant film during each movement.

Moreover, it should be noted **improved behavior at low temperature**.

"CONDAT BIO SP Evo" is applied in the form indicated by the use of a back mounted tank delivering the product through a 0.35mm nozzle. This equipment may be used in the temperature range -20 to +60°C on the rail.

### CHARACTERISTICS

Characteristics	units	CONDAT BIO SP Evo
Colour		Beige
Density		1.00
Thickener		Inorganic
Drop point	°C	N/A
Viscosity Brookfield 25°C/5t/mn-1	cP	17.000 à 25.000
<u>Base oil</u>		
- nature		Synthetic
- viscosity at 40°C	mm <sup>2</sup> /s	26
- viscosity index		241
- flash point VO	°C	> 280
- pour point	°C	< -40
Corrosion EMCOR/distilled water	quotation	0
4 ball test - 1h/40kg scar width	mm	< 0.8
UV stability test		Passed
Biodegradability CEC-L-33-A-93 - 21 days	%	> 80
Biodegradability OCDE 301B - 28 days	%	> 75% biodegradable raw material content

*The above values represent production averages and do not constitute a specification*

"CONDAT BIO SP Evo" is registered by **SNCF** under the number **IEM 06 105**  
by letter ref **DMR ER IM1 / EF 2B 34-5-215 / n° 2014-0357** dated April 22th, 2014