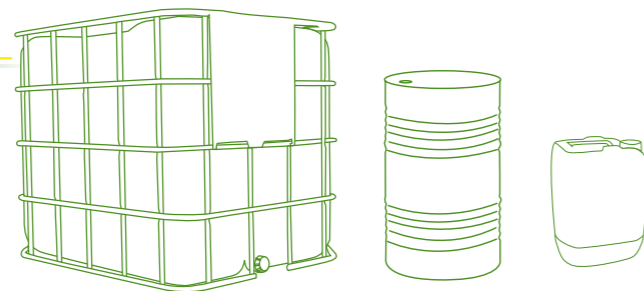


Applications

	FUNCTIONS	SUPPORTS INVOLVED (equipment or materials)
Workcamps	Cleaning agent	<ul style="list-style-type: none"> - Spreader ramps and emulsion circuits for finishers with integrated ramps - Edges - Dirty tools (handles and teeth of rakes, shovels, etc.) - Dirty clothing - Dirty gloves - Dirty shoes
	Non-stick	<ul style="list-style-type: none"> - Finisher table - Profiler conveyor flanges - Finisher or profiler hopper - Finisher supply and supply screw - Finisher track - Sump of loader carrying the asphalt - ECF machine sledge - Tools (scrapers, shovels, rakes, etc.) - Manhole covers - Shoes - Vibratory plates
Workshop	Cleaning agent	<ul style="list-style-type: none"> - Metal parts with asphalt - Metal parts with grease - Dirty clothing - Dirty gloves - Dirty shoes
	Non-stick	<ul style="list-style-type: none"> - Skip, shuttle or scraper conveyor for asphalt - Truck body
Factory	Cleaning agent	<ul style="list-style-type: none"> - Metal parts with asphalt - Metal parts with grease - Laboratory glassware with emulsion or asphalt - Dirty clothing - Dirty gloves - Dirty shoes - Asphalt filter - Glassware and other laboratory equipment
	Non-stick	<ul style="list-style-type: none"> - Skip, shuttle or scraper conveyor for asphalt - Truck body

PRESENTATION
 Container : 1000 L
 Drum : 200 L
 Plastique Jerrycan : 20 L



Site certification :
 ISO 9001 VERSION 2000
 OHSAS 18001 VERSION 1999
 ISO 14001 VERSION 2004
 Integrated Management System



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BIO 3100

ASPHALT CLEANER ANTI STICKING AGENT

- 2 Functions
- Ready to use
- Improves safety at work
- Based on new generation plant esters
- Totally biodegradable



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BILAN CARBONE®

VÉGÉTAL BIOTEC, actor in the reduction of **greenhouse gas emissions**, offers you to also contribute to lower carbon emissions responsible of global warming.

BIO 3100 Carbon assesment = 1,31 kg equivalent Carbon
 Fuel Carbon assesment = 967 kg equivalent Carbon

* Assessment calculated for a ton of product made, packaged in a plastic container and delivered to 1000 kilometers of its place of manufacturing

**REDUCTION of 738 times
 CARBON EMISSIONS**



BIO 3100 is a concentrated fluid intended for **asphalt removing** and **anti sticking treatment**, for the fabrication, the transport and the implementation of road coatings.

BIO 3100 is a cleaning fluid specifically developed to replace fuel or methyl esters of colza. It is an immediate answer to agency' managers, safety coordinators, chiefs of exploitation and foremen requirements in terms of safety at work, hygiene, environment and also in terms of performance and compatibility towards the equipment and its environment.

Formulation improving safety

Non flammable, BIO 3100 avoids any need to classify the area of use as ATEX (Regulation of July 8th 2003). On workcamps, BIO 3100 replaces fuel which can be at the origin of fire starts. Fuel has a flash point of 55°C in a 160 °C environment.

Formulation improving hygiene

BIO 3100 does not contain any solvent and does not emit vapour. Moreover, it is non irritating, has very little dehydrating effect on skin tissue. This preparation does not contain any substance listed as being carcinogenic, mutagenic, toxic, reprotoxic, harmful, irritant, sensitising, corrosive or dangerous for the environment (Regulation of November 9th 2004). BIO 3100 does not cause any occupational disease. There is no need of a special medical supervision. Never use available fuel on workcamp and, classified carcinogenic of class 3.

Formulation improving environment

BIO 3100 immediately satisfies the Regulation of May 29th 2000 related to VOC emissions. It is rapidly and completely biodegradable. It protects the environment in the event of an accidental spill and riverside populations. It requires no authorisation or declaration of use to government authorities (Regulation 2002-680).

BIO 3100 is easily and totally biodegradable according to OECD 302 C test (manometric monitoring during degradation).

Formulation improving waste management

BIO 3100 is classified as N.I.W. (Normal industrial waste) . After use, it can be collected free of charge as part of an added-value programme.

BIO 3100 is formulated from 100% plant origin and renewable constituents, having been the object of an analysis of their life cycle (ISO 14040).

Typical physical and chemical properties

PROPERTIES	STANDARDS	VALUES	UNITS
Aspect	Visual	Fluid	-
Color *	Visual	-	-
Odor	Olfactive	Weak	-
Density at 25°C	NF-EN ISO 12185	895	Kg/m ³
Freezing point	ASTM D 97	-2	° C

*This product is made and based on natural plant oil esters whose origins do not make it possible to specify a constant color. This one can vary according to the places of production and the climatic conditions before harvesting. A difference in color even extremely important does not influence at all product performance.

Performance properties

Asphalt removing time for BIO 3100	Internal method	6' 30"	mn/sec
Asphalt removing time for Fioul	Internal method	5'45"	mn/sec

Safety – fire properties

Flash point closed cup	NF EN 22719	185	° C
Auto-ignition point	ASTM E 659	>300	° C
Lower explosibility limit	-	Non explosive	% (v/v)
Upper explosibility limit	-	Non explosive	% (v/v)
Vapour pressure	NF M 07 007	<0,01	kPa à 20°C
Content of explosive, oxidizing, flammable, easily flammable, extremely flammable substances	CEE Regulation 1272/2008 CLP	Total absence	-

Toxicological properties

Iodine index	-	111,3	gl ₂ /100g
Totox (Anisidine index + 2x Peroxyde index)	-	48,56	-
Accelerated test of oxydability (Rancimat Test)	-	-	-
- Debit	-	10	l/h
- Temperature	-	100	°C
- Time	-	2,6	h
Content of toxic, very toxic, carcinogenic, mutagenic, reprotoxic, harmful, irritant, or corrosive substances	CEE Regulation 1272/2008 CLP	Total absence	-

Environment properties

Biodegradability	Test OCDE 302 C	Totally biodegradable	-
VOC content	-	0	%
Solvent content	-	0	%
Content of substances dangerous for the environment	CEE Regulation 1272/2008 CLP	Total absence	-

PRECAUTIONS OF USE

- Store in temperate places before use.
- Do not split the product in big quantity, with a jerrycan, use preferably a manual spray.
- In case of accidental split on just-made coatings, rinse immediately and profusely with water the surfaces. The first function of this product being the elimination of asphalt
- Use pure. Do not mix with fuel, classified carcinogenic.
- Spray only when the finisher is empty.
- Use on rollers only before starting.