MicroFluids
for a VOC free world

CANOVA AR

Integrated Asphalt Release and Cleaning Solution

MICROFLUIDS CANOVA AR

Engineered in Nova Scotia, Built for the World.

Non-aqueous concentrate, designed for dilution with water at point of use

Why Canola-Based Technology?

Unlike conventional soy-based (SME) release agents, Microfluids Canova™ AR is formulated using Canadian canola-derived esters, offering:

- More consistent performance
- Improved cold weather handling
- Enhanced formulation stability
- Cleaner application and reduced residue
- Premium Canadian-sourced raw materials

Bio- Degradable

Microfluids Canova™ AR is formulated using biodegradable components, including canola methyl ester (CME) and bio-based surfactants. The product is readily biodegradable under aerobic conditions, supporting environmentally responsible use in road construction and maintenance applications.

BIODEGRADABLE

VOC-FREE

"Powered by Canadian Canola Not Commodity Soy"

Microfluids Canova™ AR represents a new generation of asphalt release technology, combining engineered canola methyl ester (CME) with a strong Canadian identity. Developed in Nova Scotia, it delivers consistent, high-performance release while supporting environmentally responsible road construction.

Unlike conventional bio-based products commonly formulated with soy methyl esters (SME), Canova AR utilizes engineered CME technology to provide improved formulation consistency, cleaner application, and reliable performance across varying operating conditions.

Safer Formula

Canova AR is formulated as a VOC free release agent, developed without the use of petroleum solvents. This makes it a safer and more environmentally responsible alternative to conventional diesel-based release agents.

The product is engineered using advanced canola methyl ester (CME) technology, delivering consistent performance and clean application across a wide range of operating conditions. Its low-odor formulation improves handling safety and operator comfort on site.

In addition, Canova AR is readily biodegradable and has a high flash point (>100°C), supporting modern environmental and safety standards. Designed for reliability, it helps enhance operational efficiency while reducing environmental impact.

Justification: Under EPA 40 CFR 51.100(s) and CARB definitions, Vegetable-based Ester Solvent and Diethylene Glycol Monobutyl Ether qualify as LVP-VOC solvents (vapor pressure < 0.1 mmHg at 20°C and boiling point > 216°C). Remaining surfactant component is non-volatile. Effective VOC = 0%.

Applications

- Truck Beds
- Asphalt Pavers
- Steel Rollers
- Rubber-Tired Rollers
- Equipment & Tools
- Shovels, rakes, and hand tools
- Asphalt chutes and hoppers
- Augers and conveyors
- Loader buckets and skid steers

Where It Performs Best

- High-temperature asphalt operations
- Urban and environmentally sensitive areas
- Sites replacing diesel-based release agents
- Projects requiring cleaner, safer handling

Dilution Ratios

- Truck beds: 1:15 – 1:20
- Drag slat: 1:5
- Tools: 1:2
- Cleaning asphalt: Undiluted

Typical Properties

Property	Value
Appearance	Clear
Odor	Mild
Density @ 20°C	~0.90–0.92 g/cm³
pH	Not applicable (non-aqueous)
Flash Point	>100 °C
VOC Content	0% (LVP-VOC exempt)
Solubility	Emulsifiable in water
Biodegradability	Readily biodegradable
Viscosity	Low (water-like)

Apply undiluted to surfaces below 95°C. When diluted with water, the product forms a stable emulsion suitable for use on higher temperature surfaces.

Microfluids Canova™ AR is available in the following standard packaging options:

- 20 liters Pails
- 205 Liters Drums
- 1000 liters IBC Totes