



Paraffin Oils and Crop Protection Formulations

CAS numbers : 64742-46-7, 97862-82-3 et 72623-86-0

The crop protection paraffin oils in the Total Special Fluids line are used as insecticides, miticides or fungicides and are authorized for use in organic farming in Europe. These substances have been registered in accordance with the E.U. Pesticides Framework Directive, one of the most draconian global standards, applying the European Pharmacopoeia Reference Standards. Because of the composition and great purity of the oils marketed by Total Special Fluids (especially the absence of aromatic compounds), the products have no health or environmental classification. **This Total Special Fluides range addresses the ever-growing health and environmental concerns related to pesticide use.**

The Total Ecosolutions Advantage +

This solution is physical: they create a several micron thickness film that coats the plant's surface, suffocating insect eggs and larva for example, or inhibiting the growth of fungal spores. this specific mechanism makes the oils usable on a variety of crops and does not any resistance in target species. They have no adverse effects on crop health or yield and quality.

The Environmental Performance



- Biodegradable
- No classification for the «environment»
- No resistance phenomena on targeted species



- No classification for the «human health»

External verification

Independent auditor EY has verified that this product was labeled according to the method described in the Total Ecosolutions Guidelines and that the guidelines comply with the principles set out in the ISO 14020 and 14021 standards which govern environmental claims and particularly their accuracy.

- **Label award date:** December 31st 2014 - Guidelines version 4
- **Label renewable date:** December 31st 2017 - Guidelines version 5
- **Label term:** December 31st 2022
- **Geographical scope:** World

Leveraging innovation to serve continuous improvement, the Total Ecosolutions program involves developing products and services that enable our customers to improve their environmental footprint. For any question or to learn more about the Total Ecosolutions program and the labeled products and services, go to: www.ecosolutions.total.com/en