

Expert international en pollutions accidentelles des eaux

PLASTOIL

Response to a Concomitant Maritime Spill of Plastic Pellets and Oil



Journée Technique du Cedre

22 Novembre 2023

Thomas LE BIHAN

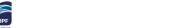
Le contexte





R&D Award 2022 de l'ITOPF







ITOPF grants 12th annual Research and Development (R&D) award to PLASTOIL project by Cedre

Written by Ine Lane 19 April 2023

ITOPF is pleased to announce the winner of its 2023 Research and Development (R&D) award as the PLASTOIL Documentation Decearch and Evperimentations of

polyethylene (LDPF) plastic pellets (purdles) and propulsion



A spill of plastic pellets affecting the Sri Lankan coastline in 2021 highlighted the risks of interaction with other pollutants present on board such as fuel oil, this study will aim to reduce the gaps in knowledge on how nurdles behave in the environment and with other pollutants.

like PLASTOIL to exist through our R&D Award funding, as we can see from recent cases the risks posed to the environment by spills of plastic pallets are high

"As always, we had a very strong year of applications with the quality of projects really shining through

"Increasing the knowledge bank on how plastic pellets behave in the marine environment will only bolste the ability to respond effectively to these spills and sharing the knowledge with coastal states and other response organisations will benefit us all in the future."

and development projects worldwide.

Further information on the Award, including updates on previous award winners, can be found on the R&D Award Page. The deadline for applications for the 2024 ITOPF R&D Award is 1st December 2023.

Projet de 24 mois - Financement de 60 000 £



Camille Lacroix

Cheffe du service SEDA

Stéphane Le Floch Superviseur Chef du service Recherche



Kevin Tallec Ingénieur



Thomas Le Bihan Chef de projet Ingénieur



Mikaël Laurent Ingénieur



Karine Tréguer Technicienne



Objectifs



Déterminer le comportement du mélange





Établir des techniques de luttes adaptées



Gérer efficacement les déchets





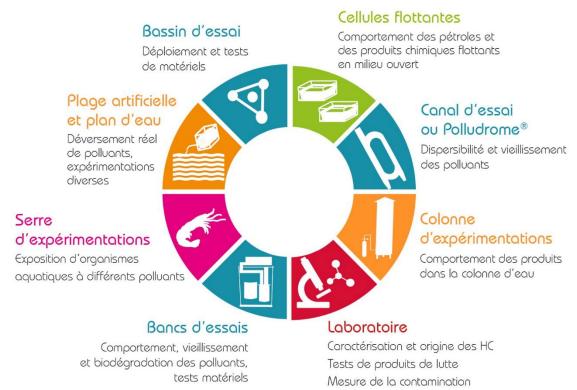
Les substances utilisées



Pourcentage de GPI ajouté aux HC : 0% – 25% – 50% – 75%



Déterminer le comportement des mélanges

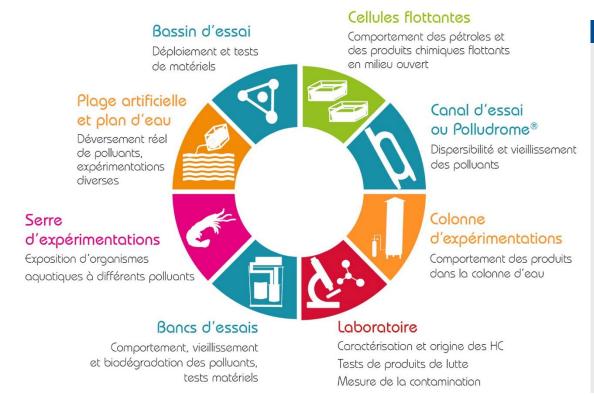


Caractéristiques étudiés

- Compositions des hydrocarbures utilisés
- Évaporation
- Étalement
- Flottabilité
- Émulsification
- Photo-oxydation
- Biodégradation



Déterminer le comportement des mélanges



Caractéristiques étudiés

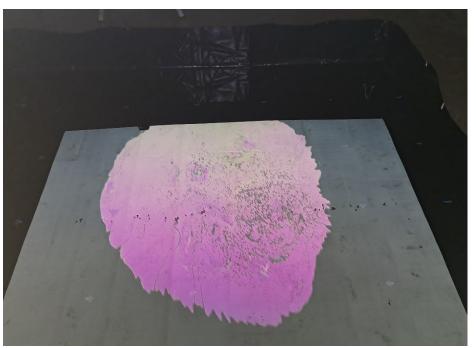
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L'étalement et la formation des nappes Hydrocarbures

Étalement Gasoil

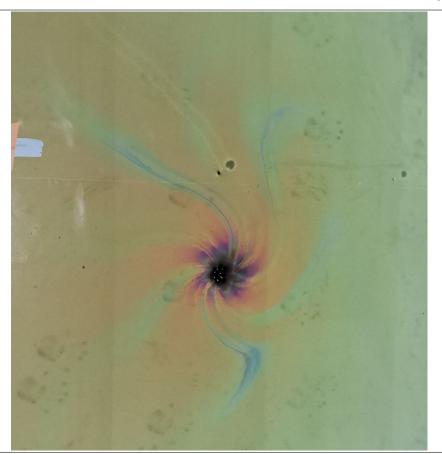
Étalement VLSFO







L'étalement et la formation des nappes Hydrocarbures + GPI







Étalement Gasoil + 75 % de GPI

