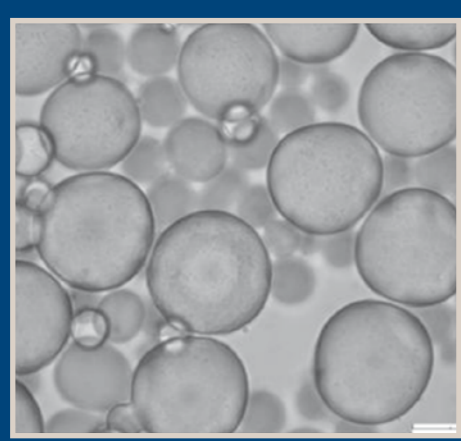


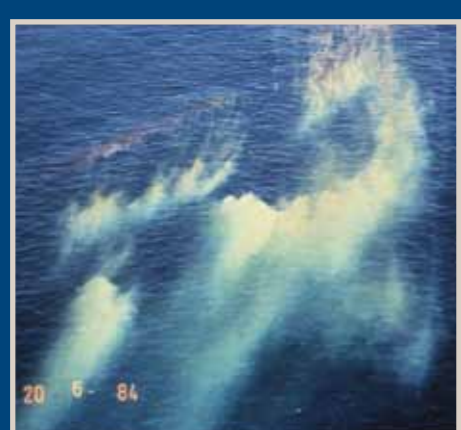
# What are intelligent oil spill chemicals

Use of chemicals can modify the properties, fate and behaviour of spilled oil in different phases after an incident. Use of chemicals can improve cost, effectiveness and reduce the environmental overall effects of an accidental oil spill. Chemicals are often used in combination with traditional strategies.

## Classification of potential oil spill chemicals



- Dispersants
- Demulsifiers
- Pour-point depressants
- Gelling agents
- Elastomers (enhance the visco-elastic properties of the oil)
- Sinking agents
- Oil mineral aggregates (mechanical dispersion)
- Hardening agents (reduce spreading)
- Shoreline washing and dispersant agents
- Combustion promoters
- Bioremediation agents
- Coating agents

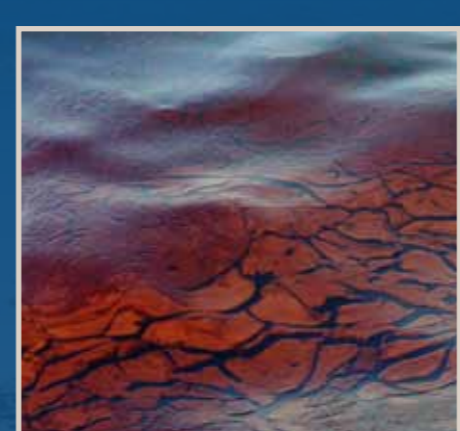


Example 1; Green dispersants (low toxic components)

Example 2 ; Surfactant producing bacteria and Biostimulating agents

Example 3 ; Nor-X (reduce spreading of spilled oil)

Example 4; Hardeners in combination with in-situ burning



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