Review Article

Oil Degradation Taking Microbial Help and Bioremediation: A Review

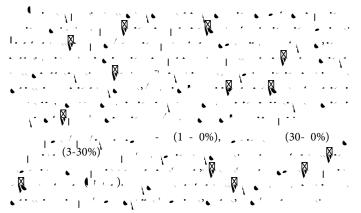
Vaishali Rathi 1* and Varinder Yadav 2tar38at ;s841.h4 sortin

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Petroleum and its hydrocarbons

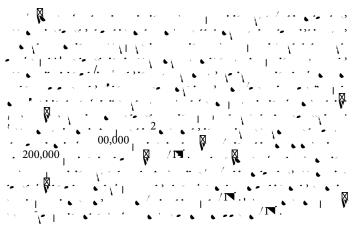


An eye on pollution petroleum hydrocarbons





Origin of Oil Spills



Sources of PHC Pollution



Indian Scenario

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Di erent methods of clean up the oil spilled soil and water

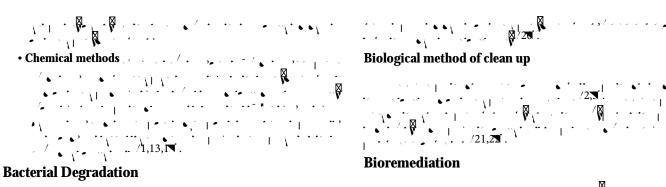
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- Physical clean-up methods or
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Product	Lower Carbon Limit	Upper Carbon Limit	Lower Boiling Point (°C)	Upper Boiling Point (°C)	Lower Boiling Point (°F)	Upper Boiling Point (°F)
Refnery gas	C ₁	C ₄	-161	-1	-259	31
Liquefed petroleum	C ₃	C ₄	-42	-1	-44	31
gas						
Naphtha	C ₅	C ₁₇	36	302	97	575
Gasoline	C ₄	C ₁₂	-1	216	31	421
Kerosene diesel fuel	C ₈	C ₁₈	126	258	302	575
Aviation turbine fuel	C ₈	C ₁₆	126	287	302	548
Fuel oil	C ₁₂	>C ₂₀	216	421	>343	>649
Lubricating oil	>C ₂₀		>343		>649	
Wax	C ₁₇	>C ₂₀	302	>343	575	>649
Asphalt	>C ₂₀	20	>343		>649	
Coke	C ₅₀ ^a		>1000ª		>1832ª	
Carbon number and		assess; inserted for il	lustrative purposes only.			,

Table 1: Classif cation of petroleum.

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Constituents	Problems with soil	References	Problems with Microbes	References
	m5.43.378 0 Tdonbesu ,.705 0 Td(Ref171.703	001 SQ 100w0	mwit5.j/TT0ports)0.5Microbe 72.779pcm0e1a-66	
rude oil n alkanes				

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Current oil removal technologies available

Future scope

Conclusion



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