



Dispersants Application Techniques & Suitability on Various Oil Types. & Summary of Details of Solvents Used in Dispersant Formulations.

Table (1)

Dispersant Name NATPLAN Approved	Dispersant Type	Surfactant(s)	Type	Flash Point C	Application Ratio Disp/oil	Use on Light oil	Use on Medium Oil	Use on heavy Oil - Good spreading	Use on heavy oil - Poor spreading	Application Undiluted from Boat	Application Water reduction	Application Small Aircraft
<i>Tergo R-40@@</i>	Water based concentrate	Non ionic	III	> 80	1: 20	Possible	Yes	Yes	Possible	Yes	Yes	Yes
<i>Ardrox 6120##</i>	Water dilutable concentrate		II / III	76	1: 25	Possible	Yes	Yes	Possible	Yes	Yes	Yes
<i>BP-AB@</i>	Hydrocarbon based		I	>61	1: 3	Possible	Yes	Yes	Possible	Yes	No	No
<i>Corexit 9500</i>	Hydrocarbon based		II / III	80	1:10 - 1:50	Yes	Yes	Yes	Possible	Yes	Yes	Yes
<i>Corexit 9527 #</i>	Water dilutable concentrate	Non ionic ?	II / III	76	1:20 - 1:30	Possible	Yes	Yes	Possible	Possible	Yes	Yes
<i>Corexit 9550****</i>	Hydrocarbon Based		III	69	1 : 20	Possible	Yes	Yes	Possible	Possible	No	Yes
<i>Shell VDC*</i>	Water dilutable concentrate	mixed anionic & non ionic	II / III		1:20 - 1:30	Possible	Yes	Yes	Possible	Yes	Yes	Yes
<i>Slickgone NS ***</i>	Hydrocarbon Based	anionic	II / III	72	1: 25	Possible	Yes	Yes	Possible	Yes	Yes	Yes
Non- Natplan dispersants												
<i>Corexit 7664 **</i>	Water Based	Non ionic		47	Diluted 1-3 in water .	Yes	Possible	No	No	Possible	Yes	Yes
<i>Corexit 8667</i>	Hydrocarbon based					Possible	Yes	Yes	No	Yes	No	Yes
<i>Corexit 9600</i>	Hydrocarbon Based					Possible	Yes	Yes	Possible	Yes	No	Yes

Water dilutable concentrate = Ethylene Glycol Monobutyl Ether (EGMBE) 30-60% (CAS 111-76-2) ACGIH TWA of 25 ppm (120 mg/m³) for skin. STEL 75 ppm (360mg/m³) LD50 470 mg/kg oral rat, 450 mg/kg skin rabbit

= EGMBE <20% Biodegradable surfactants >60% - balance water. (LD50 ~3000 mg/kg)

@ = Petroleum Hydrocarbons CAS 8008-20-6 >60% Aromatic HCs approx 2 %.

@@ = Polyethylene Glycol Esters of Oleic and Coconut Fatty acids (major active agent-surfactant) TLV >300ppm Acute Oral rat LD >5000mg/kg Solvent = Dipropylene glycol monomethyl ether (10%)

= Mixture of surfactant esters in mixed oxygenated solvents (& EGMBE at 38%v/v) (2-butoxyethanol present-CAS 111-76-20

***** = EGMBE & Biodegradable anionic and nonionic surfactants (10-60%)

Summary of compositional data taken from Material Safety Data Sheets & Company Information sheets.



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** = Ester surfactants in mixed oxygenated solvents (isopropyl alcohol present)-shoreline protection agent
*** = Kerosene (25 % aromatics) Surfactant Sodium dioctylsulphosuccinate (CAS 577-11-7)
**** EGMBE and isoparaffinic solvent