



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

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

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 Education	Application Small Aircraft
Tergo R-40@@@	Water based concentrate	Non ionic	III	> 80	1:20	Possible	Yes	Yes	Possible	Yes	Yes	Yes
Ardrox 6120##	Water dilutable concentrate		II / III	76	1:25	Possible	Yes	Yes	Possible	Yes	Yes	Yes
BP-AB@	Hydrocarbon based		I	> 61	1:3	Possible	Yes	Yes	Possible	Yes	No	No
Corexit 9500	Hydrocarbon based		II / III	80	1:10 - 1:50	Yes	Yes	Yes	Possible	Yes	Yes	Yes
Corexit 9527 #	Water dilutable concentrate	Non ionic ?	II / III	76	1:20 - 1:30	Possible	Yes	Yes	Possible	Possible	Yes	Yes
Corexit 9550****	Hydrocarbon based		III	69	1:20	Possible	Yes	Yes	Possible	Possible	No	Yes
Shell VDC*	Water dilutable concentrate	Mixed anionic & non ionic	II / III		1:20 - 1:30	Possible	Yes	Yes	Possible	Yes	Yes	Yes
Slickgone NS ***	Hydrocarbon based	Anionic	II / III	72	1:25	Possible	Yes	Yes	Possible	Yes	Yes	Yes
Non- NATPLAN dispersants												
Corexit 7664 **	Water based	Non ionic		47	Diluted 1-3 in water	Yes	Possible	No	No	Possible	Yes	Yes
Corexit 8667	Hydrocarbon based					Possible	Yes	Yes	No	Yes	No	Yes
Corexit 9600	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, 450mg/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 agentsurfactant) 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 non ionic surfactants (10-60%)

** = 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