

# Petroleum Services Association of Canada

## Drilling Fluid Product Listing for Potential Toxicity Information

**Toxicity Threshold Value'** identifies the concentration above which an additive may cause adverse effects to the environment. This value is only one of the required elements used to determine the proper method of disposal of any water based drilling waste (see AEUB Guide 50).

**Functional Groups** primary noted first and followed by others

- |                          |                               |                           |
|--------------------------|-------------------------------|---------------------------|
| 1. Alkalinity ph Control | 7. Filtrate Reducers          | 13. Surface Active Agents |
| 2. Bactericides          | 8. Flocculants                | 14. Thinners, Dispersants |
| 3. Calcium Removers      | 9. Foaming Agents             | 15. Viscosifiers          |
| 4. Corrosion Inhibitors  | 10. Lost Circulation Material | 16. Weighing Materials    |
| 5. Defoamers             | 11. Lubricants                | 17. Polymer Stabilizers   |
| 6. Emulsifiers           | 12. Shale Control Inhibitors  | 18. Polymer Breakers      |

PRODUCT NAME (in alphabetical order)	TOXICITY THRESHOLD (THX) in kg/m3 (assume liquid has a SG=1)	CONCENTRATION TESTED in kg/m3 (data void if THX is established)	INITIAL EC50(15)% (data void if THX is established)	VALID UNTIL (Based upon expiry date of MSDS)	FUNCTIONAL GROUP
2K7 Water Soluble Pak		0.03 kg/m3	10	03/25/2007	2
Alcomer 110 RD		3.0 kg/m3	>91	12/03/2006	12
Alcomer 120L OS		3.0 L/m3	>91	11/17/2006	12
Alcomer 60 RD		3.0 kg/m3	>91	09/09/2006	12
Alcomer 74		0.7 kg/m3	>91	09/27/2005	14
Aldacide G	0.015 L/m3			02/19/2006	2
Aluminum Stearate		0.285 kg/m3	>75	01/30/2006	5
Baro Lube Gold Seal		0.05 L/m3	>91	12/11/2005	11
Bara-Defoam® 1		0.089 L/m3	>91	02/16/2007	5
Barafloc	5 kg/m3			09/24/2005	12
Black Knite		20 L/m3	>100	11/27/2005	12
Bri-Chem Defoamer		0.5 L/m3	>91	06/23/2008	5
Bri-Chem Inhibi-Drill		20 L/m3	>91	06/23/2008	12
Bri-Chem Torque Reducer		6 L/m3	9	06/23/2008	11
Can-Free		0.5 L/m3	30	07/30/2006	11
Chemcide		0.1 kg/m3	11	08/22/2005	2
Corinox		1 L/m3	>75	01/27/2007	4
Defoamer Silicone		0.5 L/m3	>100	09/02/2005	5
Defoam-X		1.0 L/m3	>100	02/13/2007	5
Detergent L		0.4 L/m3	88	06/23/2008	13
Dextrid® LT	3.2 kg/m3			02/16/2007	7
D-Foam 2000		0.5 L/m3	>91	06/23/2008	5
DrilCon-DS		.5 L/m3	32	11/27/2005	13
Drilling Detergent L		0.4 L/m3	>75	12/06/2007	13
Drilling Detergent P		1.0 kg/m3	>75	03/19/2007	13
Drilstar (starch)	5 kg/m3			06/23/2008	7
Drilstar HT (starch)		8.0 kg/m3	47	09/10/2006	7
Duranex® Plus	22.7 kg/m3			09/30/2005	14
EcoDrill DM246		300 L/m3	>91	12/11/2005	12
EcoDrill DMP 317		200 L/m3	>91	09/24/2004	12
Emul-Break		1.0 L/m3	42	08/16/2005	6
Enkapsafloc		1.4 kg/m3	>100	12/14/2007	12
Enviro K		10 L/m3	>91	04/30/2006	12
E-Z Drill	29 L/m3			06/23/2008	11
Ezeslide-XLT		15 L/m3	37	11/27/2005	11
Foam Buster		5 L/m3	>100	11/27/2005	5
High-Perm		10 L/m3	>91	05/06/2007	12
HME Coupler		0.5 L/m3	61	05/10/2007	6
Hyperdrill AF 247RD		3 kg/m3	>91	08/26/2006	12
K2		10 L/m3	>91	05/06/2007	12
Klacure		15 L/m3	>100	09/16/2006	12
Klagard		15 L/m3	>100	03/26/2007	12

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**Updated:** July, 2005

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Liquisperse		0.1 L/m3	>91	09/20/2005	13
Lube 100		10 L/m3	34	06/08/2007	11
Polysafe (Polyacrylimide)		1.0 L/m3	>91	09/30/2007	12
Potassium Sulfate		51.4 kg/m3	>91	12/03/2006	12
Safe-T-Coat		1 L/m3	63	06/23/2008	4
Saf-Kote		0.5 L/m3	50	12/06/2007	4
SAPP		0.25 kg/m3	>91	04/14/2007	13
Sodium Sulfite, Catalyzed		1.0 kg/m3	>91	08/18/2005	4
Soltex Additive		14 kg/m3	76.0	05/11/2007	12
Stable K		10 L/m3	>91	04/01/2006	12
StarDril	27 kg/m3			08/21/2005	7
Starlose P-100 (Starch w/Biocide)		17 kg/m3	2	06/23/2008	7
Starpak DP (modified Starch)		16 kg/m3	68	06/23/2008	7
T-2001 (Demulsifier)		0.1 L/m3	>90	06/23/2008	6
T-352 (Glutaraldehyde) (These results were achieved after the deactivation process).			>100	06/23/2008	2
Thin-Tex		2.85 kg/m3	>91	01/12/2007	14
Torq 2000		5 L/m3	10	05/10/2007	11
Torq-Glide		0.17 L/m3	>91	01/09/2006	11
Torq-Trol II		5 L/m3	12	09/30/2005	11
XL-Defoamer		0.5 L/m3	>75	03/25/2007	5
Zinc Carbonate		14 kg/m3	36	06/23/2008	4

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**DRILLING WASTE TOXICITY ASSESSMENT DECISION TREE**

