

Chemical Inventory - Cloughton 2 - Bentonite Based Drilling Fluid									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
36" Hole Section - Bentonite Based Drilling Fluid - Primary									
CAUSTIC SODA M2	pH Modifier	1823	8	Sodium Hydroxide	60 - 100	1310-73-2	H290, H314, H318	Not Classified	M002, Version 6, 11/12/2023
M-I GEL (Bentonite)	Viscosifier	N/A	N/A	Crystalline Silica (Impurity)	<10	14808-60-7	H373	Not Classified	PID971, Version 5, 17/02/2020
M-I WATE	Weighting Agent Drilling Fluid Additive	N/A	N/A	Barite	60 - 100	13462-86-7	Not Classified	Not Classified	PID13503, Version 6, 08/03/2022
				Crystalline Silica (Impurity)	5 - <10	14808-60-7	H373		
SODA ASH	pH Modifier	N/A	N/A	Sodium Carbonate	60-100	497-19-8	H319	Not Classified	PID1477, Version 11, 14/07/2023
WATER	Base Component.	N/A	N/A	Water	100	7732-18-5	Not Classified	Not Classified	N/A

Chemical Inventory - Cloughton 2 - Gel / PAC Based Drilling Fluid									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
17 1/2" Hole Section - Gel / PAC Based Drilling Fluid - Primary									
CAUSTIC SODA M2	pH Modifier Water Based Drilling Fluid Additive	1823	8	Sodium Hydroxide	60 - 100	1310-73-2	H290, H314, H318	Not Classified	M002, Version 6, 11/12/2023
DRILLING STARCH	Fluid Loss Reducer	N/A	N/A	Starch	60 - 100	Proprietary	Not Classified	Not Classified	PID2025, Version 3, 05/02/2020
M-I GEL (Bentonite)	Viscosifier	N/A	N/A	Crystalline Silica (Impurity)	<10	14808-60-7	H373	Not Classified	PID971, Version 5, 17/02/2020
M-I PAC (All Grades)	Fluid Loss Reducer Viscosifier	N/A	N/A	Polyanionic cellulose	60 - 100	Proprietary	Not Classified	Not Classified	142408, Version 9, 21/12/2022
M-I WATE	Weighting Agent Drilling Fluid Additive	N/A	N/A	Barite	60 - 100	13462-86-7	Not Classified	Not Classified	PID13503, Version 6, 08/03/2022
				Crystalline Silica (Impurity)	5 - <10	14808-60-7	H373		
SODA ASH	pH Modifier Drilling Fluid Additive	N/A	N/A	Sodium Carbonate	60-100	497-19-8	H319	Not Classified	PID1477, Version 11, 14/07/2023
WATER	Base Component.	N/A	N/A	Water	100	7732-18-5	Not Classified	Not Classified	N/A

Chemical Inventory - Cloughton 2 - Salt Saturated Glydrill Based Drilling Fluid									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
12 1/4" Hole Section - Salt Saturated Glydrill Based Drilling Fluid - Primary									
CAUSTIC SODA M2	pH Modifier Water Based Drilling Fluid Additive	1823	8	Sodium Hydroxide	60 - 100	1310-73-2	H290, H314, H318	Not Classified	M002, Version 6, 11/12/2023
CONQOR 404EH	Corrosion Inhibitor	N/A	N/A	Potassium Hydroxide	<1	1310-58-3	H290, H302, H314	Not Classified	PID20036, Version 5, 14/05/2024
DRILLING STARCH	Fluid Loss Reducer	N/A	N/A	Starch	60 - 100	Proprietary	Not Classified	Not Classified	PID2025, Version 3, 05/02/2020
DUO-VIS	Viscosifier	N/A	N/A	Glyoxal	<1	107-22-2	Not Classified	Not Classified	PID510, Version 13, 03/03/2022
GLYDRIL MC	Inhibition Water Based Drilling Fluid Additive	N/A	N/A	Poly(oxy-1,2-ethanediyl), a-butyl-omega-hydroxy	60 - 100	9004-77-7	H318	Not Classified	PID729, Version 10, 13/10/2022
GLYDRIL MC (MIL091)	Inhibition Water Based Drilling Fluid Additive	N/A	N/A	2-[2-(2-butoxyethoxy)ethoxy]ethanol	20 - 70	143-22-6	H318	Not Classified	144344, Version 1, 25/11/2021
				3,6,9,12-Tetraoxahexadecan-1-ol	10 - 40	1559-34-8	H319		
				2-(2-Butoxyethoxy)ethanol	0 - 5	112-34-5	H319		
M-I PAC (All Grades)	Fluid Loss Reducer Viscosifier	N/A	N/A	Polyanionic cellulose	60 - 100	Proprietary	Not Classified	Not Classified	142408, Version 9, 21/12/2022
M-I WATE	Weighting Agent Drilling Fluid Additive	N/A	N/A	Barite	60 - 100	13462-86-7	Not Classified	Not Classified	PID13503, Version 6, 08/03/2022
				Crystalline Silica (Impurity)	5 - <10	14808-60-7	H373		
NUOSEPT 78	Biocide	2810	6.1	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol	78	4719-04-4	H302, H317, H319, H330, H372	Toxic	Version 6.02, 16/11/2023
POTASSIUM CHLORIDE BRINE	Completion Fluid Additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	5 - 30	7447-40-7	Not Classified	Not Classified	PID1290, Version 13, 24/07/2023
POTASSIUM CHLORIDE	Completion Fluid Additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	60 - 100	7447-40-7	Not Classified	Not Classified	PID10258, Version 8, 14/06/2023
SAFE-CARB (All Grades)	Lost Circulation Material Weighting Agent Bridging Material	N/A	N/A	Calcium Carbonate	60 - 100	471-34-1	Not Classified	Not Classified	PID1361, Version 11, 10/05/2023
				Crystalline Silica (Im,purity)	<1	14808-60-7	H373		
SODA ASH	pH Modifier Water Based Drilling Fluid Additive	N/A	N/A	Sodium Carbonate	60-100	497-19-8	H319	Not Classified	PID1477, Version 11, 14/07/2023
SODIUM CHLORIDE BRINE	Weighting Agent Completion Brine	N/A	N/A	Sodium Chloride	30 - 60	7647-14-5	Not Classified	Not Classified	PID1103, Revision 7, 26/07/2020
SODIUM CHLORIDE POWDER (SALT PVD or GRANULAR SALT)	Weighting Agent	N/A	N/A	Sodium Chloride	30 - 60	7647-14-5	Not Classified	Not Classified	PID1422, Version 11, 14/06/2023

Chemical Inventory - Cloughton 2 - Salt Saturated Glydril Based Drilling Fluid									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
8 1/2" Hole Section - Salt Saturated Glydril Based Drilling Fluid - Primary									
CAUSTIC SODA M2	pH Modifier Water Based Drilling Fluid Additive	1823	8	Sodium Hydroxide	60 - 100	1310-73-2	H290, H314, H318	Not Classified	M002, Version 6, 11/12/2023
CONQOR 404EH	Corrosion Inhibitor	N/A	N/A	Potassium Hydroxide	<1	1310-58-3	H290, H302, H314	Not Classified	PID20036, Version 5, 14/05/2024
DRILLING STARCH	Fluid Loss Reducer	N/A	N/A	Starch	60 - 100	Proprietary	Not Classified	Not Classified	PID2025, Version 3, 05/02/2020
DUO-VIS	Viscosifier	N/A	N/A	Glyoxal	<1	107-22-2	Not Classified	Not Classified	PID510, Version 13, 03/03/2022
GLYDRIL MC	Inhibition Water Based Drilling Fluid Additive	N/A	N/A	Poly(oxy-1,2-ethanediyl), a-butyl-omega-hydroxy	60 - 100	9004-77-7	H318	Not Classified	PID729, Version 10, 13/10/2022
GLYDRIL MC (MIL091)	Inhibition Water Based Drilling Fluid Additive	N/A	N/A	2-[2-(2-butoxyethoxy)ethoxy]ethanol	20 - 70	143-22-6	H318	Not Classified	144344, Version 1, 25/11/2021
				3,6,9,12-Tetraoxahexadecan-1-ol	10 - 40	1559-34-8	H319		
				2-(2-Butoxyethoxy)ethanol	0 - 5	112-34-5	H319		
M-I PAC (All Grades)	Fluid Loss Reducer Viscosifier	N/A	N/A	Polyanionic cellulose	60 - 100	Proprietary	Not Classified	Not Classified	142408, Version 9, 21/12/2022
M-I WATE	Weighting Agent Drilling Fluid Additive	N/A	N/A	Barite	60 - 100	13462-86-7	Not Classified	Not Classified	PID13503, Version 6, 08/03/2022
				Crystalline Silica (Impurity)	5 - <10	14808-60-7	H373		
NUOSEPT 78	Biocide	2810	6.1	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol	78	4719-04-4	H302, H317, H319, H330, H372	Toxic	Version 6.02, 16/11/2023
POTASSIUM CHLORIDE BRINE	Completion Fluid Additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	5 - 30	7447-40-7	Not Classified	Not Classified	PID1290, Version 13, 24/07/2023
POTASSIUM CHLORIDE	Completion Fluid Additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	60 - 100	7447-40-7	Not Classified	Not Classified	PID10258, Version 8, 14/06/2023
SAFE-CARB (All Grades)	Lost Circulation Material Weighting Agent Bridging Material	N/A	N/A	Calcium carbonate	60 - 100	471-34-1	Not Classified	Not Classified	PID1361, Version 11, 10/05/2023
				Crystalline Silica (Im,purity)	<1	14808-60-7	H373		
SODA ASH	pH Modifier Water Based Drilling Fluid Additive	N/A	N/A	Sodium Carbonate	60-100	497-19-8	H319	Not Classified	PID1477, Version 11, 14/07/2023
SODIUM CHLORIDE BRINE	Weighting Agent Completion Brine	N/A	N/A	Sodium Chloride	30 - 60	7647-14-5	Not Classified	Not Classified	PID1103, Revision 7, 26/07/2020
SODIUM CHLORIDE POWDER (SALT PVD or GRANULAR SALT)	Weighting Agent	N/A	N/A	Sodium Chloride	30 - 60	7647-14-5	Not Classified	Not Classified	PID1422, Version 11, 14/06/2023

Chemical Inventory - Cloughton 2 - Salt Saturated Glydrill Based Drilling Fluid									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
6" Hole Section - Salt Saturated Glydrill Based Drilling Fluid - Primary									
CAUSTIC SODA M2	pH Modifier Water Based Drilling Fluid Additive	1823	8	Sodium Hydroxide	60 - 100	1310-73-2	H290, H314, H318	Not Classified	M002, Version 6, 11/12/2023
CONQOR 404EH	Corrosion Inhibitor	N/A	N/A	Potassium Hydroxide	<1	1310-58-3	H290, H302, H314	Not Classified	PID20036, Version 5, 14/05/2024
DRILLING STARCH	Fluid Loss Reducer	N/A	N/A	Starch	60 - 100	Proprietary	Not Classified	Not Classified	PID2025, Version 3, 05/02/2020
DUO-VIS	Viscosifier	N/A	N/A	Glyoxal	<1	107-22-2	Not Classified	Not Classified	PID510, Version 13, 03/03/2022
GLYDRIL MC	Inhibition Water Based Drilling Fluid Additive	N/A	N/A	Poly(oxy-1,2-ethanediyl), a-butyl-omega-hydroxy	60 - 100	9004-77-7	H318	Not Classified	PID729, Version 10, 13/10/2022
GLYDRIL MC (MIL091)	Inhibition Water Based Drilling Fluid Additive	N/A	N/A	2-[2-(2-butoxyethoxy)ethoxy]ethanol	20 - 70	143-22-6	H318	Not Classified	144344, Version 1, 25/11/2021
				3,6,9,12-Tetraoxahexadecan-1-ol	10 - 40	1559-34-8	H319		
				2-(2-Butoxyethoxy)ethanol	0 - 5	112-34-5	H319		
M-I PAC (All Grades)	Fluid Loss Reducer Viscosifier	N/A	N/A	Polyanionic cellulose	60 - 100	Proprietary	Not Classified	Not Classified	142408, Version 9, 21/12/2022
M-I WATE	Weighting Agent Drilling Fluid Additive	N/A	N/A	Barite	60 - 100	13462-86-7	Not Classified	Not Classified	PID13503, Version 6, 08/03/2022
				Crystalline Silica (Impurity)	5 - <10	14808-60-7	H373		
NUOSEPT 78	Biocide	2810	6.1	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol	78	4719-04-4	H302, H317, H319, H330, H372	Toxic	Version 6.02, 16/11/2023
POTASSIUM CHLORIDE BRINE	Completion Fluid Additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	5 - 30	7447-40-7	Not Classified	Not Classified	PID1290, Version 13, 24/07/2023
POTASSIUM CHLORIDE SALT	Completion Fluid Additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	60 - 100	7447-40-7	Not Classified	Not Classified	PID10258, Version 8, 14/06/2023
SAFE-CARB (All Grades)	Lost Circulation Material Weighting Agent Bridging Material	N/A	N/A	Calcium carbonate	60 - 100	471-34-1	Not Classified	Not Classified	PID1361, Version 11, 10/05/2023
				Crystalline Silica (Im,purity)	<1	14808-60-7	H373		
SODA ASH	pH Modifier Water Based Drilling Fluid Additive	N/A	N/A	Sodium Carbonate	60-100	497-19-8	H319	Not Classified	PID1477, Version 11, 14/07/2023
SODIUM CHLORIDE BRINE	Weighting Agent Completion Brine	N/A	N/A	Sodium Chloride	30 - 60	7647-14-5	Not Classified	Not Classified	PID1103, Version 7, 26/07/2023
SODIUM CHLORIDE POWDER (SALT PVD or GRANULAR SALT)	Weighting Agent	N/A	N/A	Sodium Chloride	30 - 60	7647-14-5	Not Classified	Not Classified	PID1422, Version 11, 14/06/2023
Water	Base Component.	N/A	N/A	Water	100	7732-18-5	Not Classified	Not Classified	N/A

Chemical Inventory - Cloughton 2 - Clean Up Fluids									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
Clean Up Fluids - Hi-Vis Pill									
DUO-VIS	Viscosifier	N/A	N/A	Glyoxal	<1	107-22-2	Not Classified	Not Classified	PID510, Version 13, 03/03/2022
POTASSIUM CHLORIDE BRINE	Completion fluid additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	5 - 30	7447-40-7	Not Classified	Not Classified	PID1290, Version 13, 24/07/2023
POTASSIUM CHLORIDE SALT	Completion fluid additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	60 - 100	7447-40-7	Not Classified	Not Classified	PID10258, Version 8, 14/06/2023
Clean Up Fluids - Surfactant Wash Pill									
POTASSIUM CHLORIDE BRINE	Completion fluid additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	5 - 30	7447-40-7	Not Classified	Not Classified	PID1290, Version 13, 24/07/2023
POTASSIUM CHLORIDE SALT	Completion fluid additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	60 - 100	7447-40-7	Not Classified	Not Classified	PID10258, Version 8, 14/06/2023
SAFE-SURF EU	Wellbore Cleaner Detergent / Cleaning Fluid	N/A	N/A	2-butoxyethanol	30 - 60	111-76-2	H227, H302, H315, H319, H331	Not Classified	PID20170, Version 4, 11/03/2024
				D-Glucopyranose, oligomeric, C8-10 glycosides	5 - 10	68515-73-1	H318		
				Citric acid	1 - <3	77-92-9	H319, H335		
Clean Up Fluids - Surface Cleaning									
SOBO S GOLD 08	Surface Treatment Cleaning Agent Detergent / Cleaning Fluid	N/A	N/A	TETRAPOTASSIUM PYROPHOSPHATE	1 - 10	7320-34-5	H319, H335	Not a PBT according to REACH Annex XIII	PAQ36-1000-01, Version 5.0.0, 13/11/2023
				PHOSPHORIC ACID >25%	<1	7664-38-2	H314		
				C8-10 Alkyl Polyglucoside	1 - 10	68515-73-1	H318		
Clean Up Fluids - Inhibited Completion Fluid									
NUOSEPT 78	Biocide	2810	6.1	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol	78	4719-04-4	H302, H317, H319, H330, H372	Toxic	Version 6.02, 16/11/2023
POTASSIUM CHLORIDE BRINE	Completion fluid additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	5 - 30	7447-40-7	Not Classified	Not Classified	PID1290, Version 13, 24/07/2023
POTASSIUM CHLORIDE SALT	Completion fluid additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	60 - 100	7447-40-7	Not Classified	Not Classified	PID10258, Version 8, 14/06/2023
SAFE-COR	Corrosion inhibitor	N/A	N/A	Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivs. Residues	30 - 60	68909-77-3	H318, H402, H412	Not Classified	PID1370, Version 13, 30/08/2022
SAFE-SCAV HSN	Hydrogen Sulphide Scavenger	2810	6.1	2,2',2''-(Hexahydro-1,3,5-triazin-1,3,5-triyl)triethanol	30 - 60	4719-04-4	H302, H317, H319, H330, H372, H402	Not Classified	PID17341, Version 6, 08/09/2023
				2-aminoethanol (Impurity)	1 - <3	141-43-5	H302, H312, H314, H332, H335		
				Methanol (impurity)	0.1 - <0.5	67-56-1	H225, H301, H311, H331, H370		
				Formaldehyde (impurity)	<0.1	50-00-0	H301, H311, H314, H317, H331, H335, H341, H350		

Chemical Inventory - Cloughton 2 - Clean Up Fluids									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
SAFE-SCAV NA	Oxygen scavenger	N/A	N/A	Ammonium hydrogensulfite	30 - 60	10192-30-0	H319, EUH031	Not Classified	PID1392, Version 12, 25/10/2022
				Sulphur Dioxide (Impurity	<1	7446-09-5	H280, H314, H331		
Water	Base Component.	N/A	N/A	Water	100	7732-18-5	Not Classified	Not Classified	N/A

Chemical Inventory - Cloughton 2 - Drilling Fluid - Contingency Products									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
Drilling Fluid - Contingency Products									
CAUSTIC SODA M2	pH Modifier Water Based Drilling Fluid Additive	1823	8	Sodium Hydroxide	60 - 100	1310-73-2	H290, H314, H318	Not Classified	M002, Version 6, 11/12/2023
Citric Acid	pH Modifier Water Based Drilling Fluid Additive	N/A	N/A	Citric acid monohydrate	60 - 100	5949-2-1	H319, H335	Not Classified	PID360, Version 11, 01/11/2023
CONQOR 404EH	Corrosion Inhibitor	N/A	N/A	Potassium Hydroxide	<1	1310-58-3	H290, H302, H314	Not Classified	PID20036, Version 5, 14/05/2024
DEFOAM PLUS NS	Defoamer	N/A	N/A	This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits	N/A	N/A	N/A	Not Classified	PID18960, Version 5, 07/09/2023
DRILLING STARCH	Fluid Loss Reducer	N/A	N/A	Starch	60 - 100	Proprietary	Not Classified	Not Classified	PID2025, Version 3, 05/02/2020
DUO-VIS	Viscosifier	N/A	N/A	Glyoxal	<1	107-22-2	Not Classified	Not Classified	PID510, Version 13, 03/03/2022
ECF-1882	Surfactant Detergent / Cleaning Fluid	N/A	N/A	2-butoxyethanol	30 - 60	111-76-2	H302, H315, H319, H332	Not Classified	144623, Version 1, 20/07/2022
				Poly(oxy-1,2-ethanediyl),.alpha.-(carboxymethyl)-.omega.-(octyloxy)-	5 - 10	53563-70-5	H315, H318		
				Alcohols, C8-10, ethoxylated	1 - 5	71060-57-6	H319		
				Poly(oxy-1,2-ethanediyl),.alpha.-hexyl-.omega.-hydroxy-	1 - 5	31726-34-8	H318		
				Hexan-1-ol	1 - 5	111-27-3	H226, H302, H312, H319		
FLOWZAN BIOPOLYMER	Drilling Fluid Additive Viscosifier	N/A	N/A	Contains no hazardous ingredients according to GHS	N/A	N/A	N/A	Contains no components considered to be either PBT, or vPvB at levels of 0.1% or higher.	100000067137, Version 1.14, 21/10/2021
FORM-A-BLOK	Drilling Fluid Additive Lost Circulation Material	N/A	N/A	Wollastonite (Ca(SiO3))	30 - 60	13983-17-0	N/A	Not Classified	PID16796, Version 4, 02/04/2024
				Cellulose	10 - 30	9004-34-6	N/A		
				Kaolin	5 - 10	1332-58-7	N/A		
FORM-A-BLOK AS	Lost Circulation Material	N/A	N/A	Cellulose	5 - 10	9004-34-6	N/A	Not Classified	PID20006, Version 3, 10/01/2024
GLYDRIL MC	Inhibition Water Based Drilling Fluid Additive	N/A	N/A	Poly(oxy-1,2-ethanediyl), a-butyl-omega-hydroxy	60 - 100	9004-77-7	H318	Not Classified	PID729, Version 10, 13/10/2022
GLYDRIL MC (MIL091)	Inhibition Water Based Drilling Fluid Additive	N/A	N/A	2-[2-(2-butoxyethoxy)ethoxy]ethanol	20 - 70	143-22-6	H318	Not Classified	144344, Version 1, 25/11/2021
				3,6,9,12-Tetraoxahexadecan-1-ol	10 - 40	1559-34-8	H319		
				2-(2-Butoxyethoxy)ethanol	0 - 5	112-34-5	H319		
G-SEAL (All Grades)	Plugging Agent	N/A	N/A	Graphite	60 - 100	7782-42-5	N/A	Not Classified	PID686, Version 11, 24/07/2023

Chemical Inventory - Cloughton 2 - Drilling Fluid - Contingency Products									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
G-SEAL PLUS	Plugging Agent	N/A	N/A	Graphite	60 - 100	7782-42-5	N/A	Not Classified	PID12351, Version 6, 12/10/2022
G-SEAL PLUS COARSE	Plugging Agent Lost Circulation Material	N/A	N/A	Graphite	10 - 30	Proprietary	N/A	Not Classified	PID16789, Version 4, 07/07/2023
				Crystalline Silica (Impurity)	0.1 - <1	14808-60-7	H373		
KWKSEAL	Lost Circulation Material	N/A	N/A	Nut Shell	N/A	N/A	N/A	Not Classified	Revision 1.1, 21/03/2011
				Wood Fibres, Cellulose	N/A	N/A	N/A		
				Synthetic Fibre	N/A	N/A	N/A		
				Synthetic Flakes	N/A	N/A	N/A		
LIME	Water Based Drilling Fluid Additive pH Modifier	N/A	N/A	Calcium hydroxide	60 - 100	1305-62-0	H315, H318, H335	Not Classified	PID904, Version 10, 16/07/2024
MB-5111	Microbicide	N/A	N/A	(Ethylenedioxy)dimethanol	60 - 100	3586-55-8	H302, H315, H318	Not Classified	PID14495, Version 9, 30/12/2022
				Formaldehyde (impurity)	<0.1	50-00-0	H301, H311, H314, H317, H331, H335, H341, H350		
M-I GEL	Viscosifier	N/A	N/A	Crystalline Silica (Impurity)	0.1 - <1	14808-60-7	H373	Contains no components considered to be either PBT, or vPvB at levels of 0.1% or higher.	PID971, Version 5, 08/09/2023
M-I PAC (All Grades)	Fluid Loss Reducer Viscosifier	N/A	N/A	Polyanionic cellulose	60 - 100	Proprietary	Not Classified	Not Classified	142408, Version 9, 21/12/2022
M-I WATE	Weighting Agent Drilling Fluid Additive	N/A	N/A	Barite	60 - 100	13462-86-7	Not Classified	Not Classified	PID13503, Version 6, 08/03/2022
				Crystalline Silica (Impurity)	5 - <10	14808-60-7	H373		
M-I-X 11 (All Grades)	Lost Circulation Material	N/A	N/A	Cellulose	60 - 100	Proprietary	N/A	Not Classified	PID11307, Version 10, 12/12/2022
				Crystalline Silica (Impurity)	<1	14808-60-7	H373		
NUOSEPT 78	Biocide	2810	6.1	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol	78	4719-04-4	H302, H317, H319, H330, H372	Toxic	Version 6.02, 16/11/2023
NUTPLUG (Fine, Medium, Coarse)	Lost Circulation Material	N/A	N/A	Cellulose	60 - 100	Proprietary	N/A	Not Classified	PID1146, Version 8, 18/02/2022
				Crystalline Silica (Impurity)	<1	14808-60-7	H373		
NUTSHELLS (All Grades)	Lost Circulation Material	N/A	N/A	Crystalline Silica (Impurity)	<1	14808-60-7	H373	Not Classified	PID14677, Version 8, 28/07/2023
POTASSIUM CHLORIDE BRINE	Completion Fluid Additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	5 - 30	7447-40-7	Not Classified	Not Classified	PID1290, Version 13, 24/07/2023
POTASSIUM CHLORIDE SALT	Completion Fluid Additive Water Based Drilling Fluid Additive	N/A	N/A	Potassium Chloride	60 - 100	7447-40-7	Not Classified	Not Classified	PID10258, Version 8, 14/06/2023

Chemical Inventory - Cloughton 2 - Drilling Fluid - Contingency Products									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
SAFE-CARB (All Grades)	Lost Circulation Material Weighting Agent Bridging Material	N/A	N/A	Calcium carbonate	60 - 100	471-34-1	Not Classified	Not Classified	PID1361, Version 11, 10/05/2023
				Crystalline Silica (Impurity)	<1	14808-60-7	H373		
SAFE-SCAV HSN	Hydrogen Sulphide Scavenger	2810	6.1	2,2',2''-(Hexahydro-1,3,5-triazin-1,3,5-triyl)triethanol	30 - 60	4719-04-4	H302, H317, H319, H330, H372, H402	Not Classified	PID17341, Version 6, 08/09/2023
				2-aminoethanol (Impurity)	1 - <3	141-43-5	H302, H312, H314, H332, H335		
				Methanol (impurity)	0.1 - <0.5	67-56-1	H225, H301, H311, H331, H370		
				Formaldehyde (impurity)	<0.1	50-00-0	H301, H311, H314, H317, H331, H335, H341, H350		
SAFE-SURF EU	Wellbore Cleaner Detergent / Cleaning Fluid	N/A	N/A	2-butoxyethanol	30 - 60	111-76-2	H227, H302, H315, H319, H331	Not Classified	PID20170, Version 4, 11/03/2024
				D-Glucopyranose, oligomeric, C8-10 glycosides	5 - 10	68515-73-1	H318		
				Citric acid	1 - <3	77-92-9	H319, H335		
SAPP	SAPP Dispersant Thinner Water Based Drilling Fluid Additive	N/A	N/A	Disodium dihydrogen diphosphate	60 - 100	7758-16-9	H319	Not Classified	PID1436, Version 4, 11/11/2024
SODA ASH	pH Modifier	N/A	N/A	Sodium Carbonate	60-100	497-19-8	H319	Not Classified	PID1477, Version 11, 14/07/2023
SOBO S GOLD 08	Surface Treatment Cleaning Agent Detergent / Cleaning Fluid	N/A	N/A	TETRAPOTASSIUM PYROPHOSPHATE	1 - 10	7320-34-5	H319, H335	Not a PBT according to REACH Annex XIII	PAQ36-1000-01, Version 5.0.0, 13/11/2023
				PHOSPHORIC ACID >25%	<1	7664-38-2	H314		
				C8-10 Alkyl Polyglucoside	1 - 10	68515-73-1	H318		
SODIUM BICARBONATE	Cement Additive	N/A	N/A	Sodium hydrogen carbonate	60 - 100	144-55-8	N/A	Not Classified	PID1483, Version 10, 08/10/2023
SOLTEX E ADDITIVE	Drilling Mud Additive	N/A	N/A	Asphalt, Sulfonated, Sodium Salt	100	68201-32-1	N/A	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	100000101140, Version 1.11, 01/03/2023 CEFAS Details (Copy provided): 1. Registration Number: 25076 2. Version No: 8 3. Expiry Date: 16/03/2027
SUGAR	Cementing Additive	N/A	N/A	Sucrose	60 - 100	57-50-1	N/A	Not Classified	PID1537, Version 5, 26/07/2023
				Crystalline silica (impurity)	<1	14808-60-7	H373		
ULTRACAP (GBL091)	Fluid Loss Rfeducer Water Based Drilling Fluid Additive	N/A	N/A	Hexanedioic acid	1 - <10	124-04-9	H319	Not Classified	143150, Version 1, 07/02/2019

Chemical Inventory - Cloughton 2 - Drilling Fluid - Contingency Products									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
ULTRAFREE NS	Lubricant	N/A	N/A	1-Tetradecene	30 - 60	1120-36-1	H304, EUH066	Not a PBT/vPvB by current EU criteria	PID11715, Version 10, 26/05/2025
				Hexadec-1-ene	10 - 30	629-73-2	H304, EUH066		
ULTRAHIB	Shale Inhibitor Water Based Drilling Fluid Additive	2735	8	Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups	60 - 100	9046-10-0	H314, H318	Not Classified	PID10482, Version 10, 24/06/2024

Chemical Inventory - Cloughton 2 - Proppant Fluid and Proppant Carrier Products									
Product Name	Purpose	UN No	Transport Class	Hazardous Chemical Composition (SDS Section 3)	Weight %	CAS Number	Hazard Statements	Results of PBT/vPvB Assessment	Comments
Proppant Carrier Products									
B390	Biocide.	N/A	N/A	Methanol, [1,2-ethanediylbis(oxy)]bis-	50-100	3586-55-8	H302, H315, H318	Not Classified	21456GHSEU, 28/06/2012
B482	Used as a fracturing additive.	N/A	N/A	2-Propylheptanol ethoxylate	60-100	160875-66-1	H318	Not Classified	B482, Version 3, 15/11/2023
B512	Used as a Crosslinker.	3266	8	2,2`,2"-nitrilotriethanol	5-10	102-71-6	Not Classified	Not Classified	B512, Version 1, 30/09/2015
				Sodium hydroxide	<20	1310-73-2	H290, H314, H318		
J218	Used as a fracturing additive.	1444	5.1	Diammonium peroxidisulphate	60-100	7727-54-0	H272, H302, H315, H317, H319, H334, H335	Not Classified	J218, Version 7, 28/04/2024
J353	Used as a fracturing additive.	N/A	N/A	This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.	N/A	N/A	Not Classified	Not Classified	J353, Version 4, 10/11/2020
J475	Used as a fracturing additive.	1444	5.1	Diammonium peroxidisulphate	60-100	7727-54-0	H272, H302, H315, H317, H319, H334, H335	Not Classified	J475, Version 6, 22/04/2024
J480	Used as a fracturing additive.	N/A	N/A	This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.	N/A	N/A	Not Classified	Not Classified	J480, Version 7, 10/05/2021
J579C	Used as a fracturing additive.	N/A	N/A	Polyactide resin	60 - 100	Proprietary	Not Classified	Not Classified	J579C, Version 1, 15/04/2022
J580	Used as a fracturing additive.	N/A	N/A	This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.	N/A	N/A	Not Classified	Not Classified	J580, Version 5, 19/04/2024
J622C	Used as an additive in oilfield applications.	N/A	N/A	Polyactide resin	60 - 100	Proprietary	Not Classified	Not Classified	J622C, Version 1, 13/05/2022
L071	Clay control agent.	N/A	N/A	This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.	N/A	N/A	Not Classified	Not Classified	L071, Version 5, 24/05/2023
S100	Used as a Proppant	N/A	N/A	Quartz	60 - 100	14808-60-7	H373	Not Classified	S100, Version 7, 08/09/2017
S626-2040	Used as a Proppant	N/A	N/A	Ceramic materials and wares, chemicals	60 - 100	66402-68-4	Not Classified	Not Classified	S626-2040, Version 1, 09/03/2020
S810	Used as a Proppant			See data Sheet					