

Decontamination and Hydrocarbon Recovery

Products for the soil and sludge washing, clean-up and removal/recovery of toxic and hazardous contaminants from soil, sand, rocks, sludges, concrete and water

SOIL AND SLUDGE WASHING + HYDROCARBON RECOVERY

Code	Product	Contaminants	Details
DC210	ULTRA-GREEN OIL-PHASE HYDROCARBON SOIL AND SLUDGE WASHING AGENT	High viscosity hydrocarbons, oils including crude oil, bitumen and coal tar	<ul style="list-style-type: none"> • Mix with contaminated soil to mobilise hydrocarbons prior to washing using a cavitation/hydraulic scrubbing system • Use in conjunction with aqueous-phase soil and sludge washing agents DC220 • Usage: blend into sludge or soil at between 0.5% and 3.0% by weight prior to washing • Contains natural-derived and biodegradable surfactants and solvents
DC211	OIL-PHASE HYDROCARBON SOIL AND SLUDGE WASHING AGENT	High viscosity hydrocarbons, oils including crude oil, bitumen and coal tar	<ul style="list-style-type: none"> • Mix with contaminated soil to mobilise hydrocarbons prior to washing using a cavitation/hydraulic scrubbing system • Use in conjunction with aqueous-phase soil and sludge washing agents DC220 or DC221 • Usage: blend into sludge or soil at between 0.5% and 3.0% by weight prior to washing • Contains biodegradable surfactants and solvents
DC220	ULTRA-GREEN AQUEOUS-PHASE HYDROCARBON SOIL AND SLUDGE WASHING AGENT	High viscosity hydrocarbons, oils including crude oil, bitumen and coal tar	<ul style="list-style-type: none"> • Non-emulsifying, washing additive for cavitation and hydraulic scrubbing systems • Use in conjunction with oil-phase soil and sludge washing agents DC210 or DC211 • Usage: dilute at a rate 1 part in 50 to 200 parts of water • Fresh and salt process water compatible
DC221	AQUEOUS-PHASE HYDROCARBON SOIL AND SLUDGE WASHING AGENT	High viscosity hydrocarbons, oils including crude oil, bitumen and coal tar	<ul style="list-style-type: none"> • Non-emulsifying, washing additive for cavitation and hydraulic scrubbing systems • Use in conjunction with oil-phase soil and sludge washing agents DC211 • Usage: dilute at a rate 1 part in 50 to 200 parts of water • Fresh and salt process water compatible
DC222	ULTRA-GREEN AQUEOUS-PHASE SOIL WASHING AGENT	Light oils and hydrocarbons	<ul style="list-style-type: none"> • Non-emulsifying soil washing additive for cavitation and hydraulic scrubbing systems • Usage: dilute at a rate 1 part in 50 to 200 parts of water • Fresh and salt process water compatible
DC223	AQUEOUS-PHASE SOIL WASHING AGENT FOR CLAY SOILS	Light oils and hydrocarbons	<ul style="list-style-type: none"> • Non-emulsifying clay soil washing additive for cavitation and hydraulic scrubbing systems • Usage: dilute at a rate 1 part in 50 to 100 parts of fresh water

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HYDROCARBON AND SLUDGE DEMULSIFICATION

Code	Product	Details
DC201	HEAVY DUTY AQUEOUS-PHASE DEMULSIFIER	<ul style="list-style-type: none"> • Separation/recovery of oils and hydrocarbons from oil-in-water and water-in-oil emulsions, including produced water, flowback water, etc. • Breaks emulsions stabilised by metal salts of naphthenic acids • Separation of high concentrations (>0.5%) of oil and hydrocarbons from water, etc. • Usage: add 0.1% to 2.0% to achieve phase separation • Use in conjunction with liquid-liquid hydrocyclones, settling tanks and liquid separation centrifuges
DC202	HEAVY DUTY OIL-PHASE DEMULSIFIER	<ul style="list-style-type: none"> • Separation/recovery of crude oil and hydrocarbons from water-in-oil emulsions, including produced crude oil and sludges containing high viscosity hydrocarbons, bitumen, solids, etc. • Use in conjunction with liquid-liquid hydrocyclones, settling tanks and centrifuges • Usage: add 0.1% to 2.0% to obtain phase separation
DC205	OIL-PHASE DEMULSIFIER + VISCOSITY MODIFIER	<ul style="list-style-type: none"> • Separation/recovery of oils and hydrocarbons from sludges and heavy crude oil, which include high viscosity hydrocarbons, bitumen, water as water-in-oil emulsions, solids, etc. • Reduces viscosity of heavy hydrocarbons, crude oil, bitumen, etc., facilitating removal • Usage: add 0.2% to 5.0% to reduce viscosity as required and obtain phase separation

HEAVY METAL AND ARSENIC DECONTAMINATION

Code	Product	Details
DC240	HEAVY METAL SOLUBILISING AGENT DC240	<ul style="list-style-type: none"> • Decontamination of soil by sequestration of heavy metals: lead, cadmium, chromium, cobalt, copper, nickel and zinc, etc. • Use in conjunction with cavitation scrubbing or continuous mixing systems • Usage: dilute at a rate 1 part in 10 to 100 parts of water • Contains a blend of sequestrants
DC241	HEAVY METAL SOLUBILISING AGENT DC241	<ul style="list-style-type: none"> • Decontamination of soil by sequestration of heavy metals: lead, cadmium, chromium, cobalt, copper, nickel and zinc, etc. • Use in conjunction with cavitation scrubbing or continuous mixing systems • Usage: dilute at a rate 1 part in 10 to 100 parts of water • Contains a blend of sequestrants (alternative chemistry to DC241, product is selected after testing)
DC245	ARSENIC SOLUBILISING AGENT	<ul style="list-style-type: none"> • Decontamination of soil by solubilisation of arsenic • Usage: dilute at a rate 1 part in 5 to 20 parts of water • Use in conjunction with cavitation scrubbing or continuous mixing systems

SPECIAL PURPOSE CLEANERS AND DEGREASERS

Code	Product	Details
DC264	TAR + BITUMEN REMOVER	<ul style="list-style-type: none"> • Special purpose heavy duty solvent-based cleaner • Removes tar and bitumen • Usage: undiluted, brush or spray, rinse off/pressure wash off • Contains biodegradable surfactants and solvents

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SPECIAL PURPOSE CLEANERS AND DEGREASERS Cont/...

Code	Product	Details
DC265	DIESEL OIL REMOVER	<ul style="list-style-type: none"> Removes diesel, kerosene, light oils, hydraulic fluids, etc., from concrete and other hard surfaces Usage: dilute at a rate 1 part in 10 to 100 parts of water Contains natural derived and biodegradable surfactants and solvents
DC270	ULTRA-GREEN OIL EMULSIFYING CLEANER	<ul style="list-style-type: none"> Emulsifying cleaner to remove oils and hydrocarbons from concrete and other hard surfaces Usage: dilute at a rate 1 part in 10 to 100 parts of water Contains natural-derived and biodegradable surfactants and solvents
DC340	GOLD STANDARD CLEANER/DEGREASER	<ul style="list-style-type: none"> General purpose non-emulsifying aqueous cleaner and degreaser for use in sensitive environments Usage: dilute at a rate 1 part in 5 to 50 parts of water Contains only natural-derived surfactants, which are individually CEFAS Gold Standard listed for use offshore in UK waters
IE405	ULTRA-GREEN SOLVENT DEGREASER	<ul style="list-style-type: none"> General purpose, rapidly evaporating natural-derived solvent degreaser Removes oils, greases Usage: undiluted, brush or spray Contains natural-derived, biodegradable solvents (no d-limonene)
IE406	HEAVY DUTY ULTRA-GREEN SOLVENT DEGREASER	<ul style="list-style-type: none"> Heavy duty natural-derived solvent degreaser (d-limonene-free) Removes heavy oils, greases, crude oil Usage: undiluted, brush or spray Contains natural-derived, biodegradable solvents (no d-limonene)
IE411	ULTRA-GREEN SOLVENT REPLACEMENT DEGREASER 10X	<ul style="list-style-type: none"> Concentrate of general purpose degreaser to replace solvent based products Removes oil, greases Usage: dilute 1 part in up to 10 parts of clean water, brush or spray Additionally contains corrosion inhibitors for ferrous metals
IE412	ULTRA-GREEN EMULSIFYING DEGREASER	<ul style="list-style-type: none"> Heavy duty degreaser Removes and emulsifies heavy oils, greases Usage: undiluted, brush, then rinse off with clean water Contains natural-derived and biodegradable surfactants and solvents
IE515	HIGH PERFORMANCE CLEANER	<ul style="list-style-type: none"> High performance general purpose cleaner Remover of heavy and other oils, greases, dirt, carbon particulates, etc. Usage: dilute 1 part in 5 to 200 parts of clean water, use through a pressure washer or brush, spray, then rinse off with clean water Contains natural-derived and biodegradable surfactants and solvents
IE520	CARBON REMOVER	<ul style="list-style-type: none"> Specialist cleaner for the removal of carbon and carbonised oils from concrete and ferrous metals Usage: undiluted, brush, then rinse off with clean water Contains biodegradable surfactants and solvents
IE521	CARBON REMOVER GEL	<ul style="list-style-type: none"> Specialist cleaner for the removal of carbon and carbonised oils from concrete and ferrous metals and concrete, gelled for ease of application to vertical surfaces and concrete Usage: undiluted, brush, then rinse off with clean water Contains biodegradable surfactants and solvents