

# Oil and Gas Transportation, Storage and Refining

Environmentally safe and high performance products for sludge treatment and hydrocarbon recovery, decontamination and cleaning, demulsification and dispersion

## SLUDGE WASHING + HYDROCARBON RECOVERY

Code	Product	Details
DC210	<b>ULTRA-GREEN HYDROCARBON SOIL AND SLUDGE OIL-PHASE WASHING AGENT</b>	<ul style="list-style-type: none"> <li>• Separate and recover hydrocarbons, crude oil, and bitumen from tank bottom and other sludges</li> <li>• Mix with tank bottom and other sludges to mobilise hydrocarbons prior to washing using a cavitation scrubbing system</li> <li>• Use in conjunction with aqueous-phase sludge washing agent DC220</li> <li>• Usage: blend into sludge or soil at between 0.5% and 3.0% by weight prior to washing</li> <li>• Contains biodegradable surfactants and hydrocarbon solvents</li> </ul>
DC211	<b>HYDROCARBON SOIL AND SLUDGE OIL-PHASE WASHING AGENT</b>	<ul style="list-style-type: none"> <li>• Separate and recover hydrocarbons, crude oil, and bitumen from tank bottom and other sludges</li> <li>• Mix with contaminated soil to mobilise hydrocarbons prior to washing using a cavitation scrubbing system</li> <li>• Use in conjunction with aqueous-phase soil and sludge washing agents DC220 or DC221</li> <li>• Usage: blend into sludge or soil at between 0.5% and 3.0% by weight prior to washing</li> <li>• Contains natural derived and biodegradable surfactants and solvents</li> </ul>
DC220	<b>ULTRA-GREEN HYDROCARBON SOIL AND SLUDGE AQUEOUS-PHASE WASHING AGENT</b>	<ul style="list-style-type: none"> <li>• Separate and recover hydrocarbons, crude oil, and bitumen from tank bottom and other sludges</li> <li>• Non-emulsifying, washing additive for cavitation and hydraulic scrubbing systems</li> <li>• Use in conjunction with oil-phase soil and sludge washing agents DC210 or DC211</li> <li>• Usage: dilute at a rate 1 part in 50 to 200 parts of water</li> <li>• Fresh and salt process water compatible</li> </ul>
DC221	<b>HYDROCARBON SOIL AND SLUDGE AQUEOUS-PHASE WASHING AGENT</b>	<ul style="list-style-type: none"> <li>• Separate and recover hydrocarbons, crude oil, and bitumen from tank bottom and other sludges</li> <li>• Non-emulsifying, washing additive for cavitation and hydraulic scrubbing systems</li> <li>• Use in conjunction with oil-phase soil and sludge washing agents DC211</li> <li>• Usage: dilute at a rate 1 part in 50 to 200 parts of water</li> <li>• Fresh and salt process water compatible</li> </ul>
DC240	<b>HEAVY METAL SOLUBILISING AGENT DC240</b>	<ul style="list-style-type: none"> <li>• Decontamination of sludges by sequestration and solubilisation of heavy metals</li> <li>• Use in conjunction with cavitation scrubbing or continuous mixing systems</li> <li>• Usage: dilute at a rate 1 part in 10 to 100 parts of water</li> <li>• Contains a blend of sequestrants</li> </ul>
DC241	<b>HEAVY METAL SOLUBILISING AGENT DC241</b>	<ul style="list-style-type: none"> <li>• Decontamination of sludges by sequestration and solubilisation of heavy metals</li> <li>• Use in conjunction with cavitation scrubbing or continuous mixing systems</li> <li>• Usage: dilute at a rate 1 part in 10 to 100 parts of water</li> <li>• Contains a blend of sequestrants (alternative chemistry to DC241, product is selected after testing)</li> </ul>
DC245	<b>ARSENIC SOLUBILISING AGENT</b>	<ul style="list-style-type: none"> <li>• Decontamination of soil by solubilisation of arsenic</li> <li>• Usage: dilute at a rate 1 part in 5 to 20 parts of water</li> <li>• Use in conjunction with cavitation scrubbing or continuous mixing systems</li> </ul>

### Global Advantech Limited

*Exceptional clean technologies for a sustainable future.....*

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## HYDROCARBON AND SLUDGE DEMULSIFICATION

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

## EMULSIFIERS AND DISPERSANTS

Code	Product	Details
DC312	ULTRA-GREEN CRUDE OIL EMULSIFIER + DISPERSANT	<ul style="list-style-type: none"> <li>• Clean and remove heavy hydrocarbons from concrete, rocks, rough/porous surfaces</li> <li>• Disperse heavy hydrocarbons and oils in fresh/salt water (not currently approved for application to oil spills offshore)</li> <li>• Usage: undiluted, spray</li> <li>• If cleaning concrete, rocks and other hard surfaces, pressure wash off and use vacuum tankers to collect</li> <li>• Contains natural-derived and biodegradable solvents and surfactants</li> </ul>
DC321	CRUDE OIL EMULSIFIER + DISPERSANT	<ul style="list-style-type: none"> <li>• Clean and remove heavy hydrocarbons from concrete, rocks, rough/porous surfaces</li> <li>• Disperse heavy hydrocarbons and oils in fresh/salt water (not currently approved for application to oil spills offshore)</li> <li>• Contains natural-derived and biodegradable solvents and surfactants</li> </ul>

## SPECIALIST CLEANERS AND DEGREASERS

Code	Product	Details
DC250	TANK + PIPE CLEANER	<ul style="list-style-type: none"> <li>• Heavy duty aqueous cleaner for use when pressure washing tanks, large pipes, etc.</li> <li>• Contains biodegradable surfactants and solvents</li> </ul>
DC255	HEAVY DUTY HYDROCARBON CLEANER	<ul style="list-style-type: none"> <li>• Penetrating and emulsifying agent to facilitate the removal heavy hydrocarbons and bitumen</li> <li>• Contains biodegradable surfactants and solvents</li> </ul>
DC255CI	HEAVY DUTY HYDROCARBON CLEANER CI	<ul style="list-style-type: none"> <li>• Penetrating and emulsifying agent to facilitate the removal heavy hydrocarbons and bitumen</li> <li>• Contains biodegradable surfactants and solvents</li> <li>• Also contains corrosion inhibitors</li> </ul>

## SPECIALIST CLEANERS AND DEGREASERS Cont/...

Code	Product	Details
DC255	HEAVY DUTY HYDROCARBON CLEANER	
DC255CI	HEAVY DUTY HYDROCARBON CLEANER CI	
DC264	TAR + BITUMEN REMOVER	
DC270	ULTRA-GREEN OIL EMULSIFYING CLEANER	
DC340	GOLD STANDARD CLEANER/DEGREASER	
IE405	ULTRA-GREEN SOLVENT DEGREASER	
IE406	HEAVY DUTY ULTRA-GREEN SOLVENT DEGREASER	
IE411	ULTRA-GREEN SOLVENT REPLACEMENT DEGREASER 10X	
IE412	ULTRA-GREEN EMULSIFYING DEGREASER	
IE515	HIGH PERFORMANCE CLEANER	
IE520	CARBON REMOVER	

## VOLATILE ORGANIC COMPOUND ABATEMENT AND ODOUR CONTROL

Code	Product	Details
DC142	VOC ABATEMENT/ DEODORISER CONCENTRATE	<ul style="list-style-type: none"> <li>• Control and neutralise odours and emissions around and during work on process plant, refineries, oil storage depots, oil tankers, site remediation, etc.</li> <li>• Solubilises hydrocarbons, sulphides, mercaptans, etc. from air into liquid phase on contact with aerosol, neutralising odours</li> <li>• Usage: dilute 1 part in 500 parts of clean water</li> <li>• Contains biodegradable surfactants and solvents, derivatives of long-chain fatty acids, perfume (no artificial musks)</li> </ul>