

| ID    | Material   | Description  | Long Description  | Commodity              | Region      |
|-------|------------|--|---|------------------------|-------------|
| 12831 | 600001838  | CONTROLLER; PROGRAMMABLE LOGIC; ENERGY M                 | CONTROLLER PROGRAMMABLE LOGIC; ANY INPUT PT,ANY OUTPUT P,SAES-K-011,UL-916 ASHRAE 135,ENERGY MANAGEMENT SYSTEM: BUILDING  | Static Equipment       | East Europe |
| 12866 | 6000014875 | DAMPER; BACK DRAFT                                       | DAMPER; BACK DRAFT TYPE,SIZE ANY,AMCA 511   | Others                 | East Europe |
| 12874 | 6000014878 | AIR HANDLING UNIT; CUSTOM BUILT                          | AIR HANDLING UNIT; AIR HANDLING UNIT CUSTOM BUILT TYPE,ANY,AMCA 99, NFPA 70, NFPA 90A, AHRI 430, AHRI 410 SEAL FOR COILS, AMCA 210 AND 301 SEA FOR FANS   | Others                 | East Europe |
| 12882 | 600002419  | Water Filter Media                                       | FILTER; SAND BED TYPE,FOR WATER SERVICE, FILTER MEDIA,WATER,32-SAMSS-034,WATER FILTER MEDIA INCLUDING: SAND, ANTHRACITE, MANGANESE GREEN SAND, BERM, GARNET, GRAVEL (AS SUPPORTING LAYER). MERGE WITH 6000001776, 6000001777, 6000002510  | Others                 | East Europe |
| 12891 | 6000008555 | Thermal & Electro-dialysis Desal Sys                     | DESALINATION; THERMAL & ELECTRO-DIALYSIS DESALINATION SYSTEMS TYPE,REVERSAL (EDR) EQUIPMENT   | Others                 | East Europe |
| 12899 | 6000012705 | Oil Skimmer  | UNIT; OIL SKIMMER TYPE,OIL/WATER-OIL SKIMMERS: A DRUM, DISK SURFACE OIL SKIMMER, OR DOUBLE ARM INTERNAL FLOAT OIL SKIMMER THAT REMOVES SURFACE OILS FLOATING ON OILY WATER RELY ON ADHESION OF OIL TO THE SURFACE OF THE MECHANISM.   | Others                 | East Europe |
| 12908 | 6000010110 | Water Media Filters                                      | FILTER; WATER MEDIA FILTERS TYPE  | Others                 | East Europe |
| 12918 | 6000012655 | WASTEWATER ODOR CONTROL                                  | CONTROL; WASTEWATER ODOR TYPE,  | Others                 | East Europe |
| 12928 | 6000016133 | REACTOR; MOVING BED BIOLOGICAL                           | REACTOR; MOVING BED BIOLOGICAL REACTOR TYPE,SAES-A-104,IS A SINGLE OR MULTIPLE- STAGE ACTIVATED SLUDGE BIOLOGICAL TREATMENT PROCESS SYSTEM FOR CARBON AND/OR NITROGEN REMOVAL USING MOVING PLASTIC CARRIERS WITH FIXED BIOFILM  | Others                 | East Europe |
| 12936 | 6000017280 | UNIT; ELECTRO-DEIONIZATION                               | UNIT; ELECTRO-DEIONIZATION TYPE,NA,WATER ELECTRO-DEIONIZATION (EDI) UNIT ASSEMBLED AND READY TO CONNECT AND START. CONSISTS OF: (1) ELECTRO-DEIONIZATION UNIT TO PRODUCE DEIONIZED WATER FROM RO 2ND PASS. (2) CO2 REMOVAL SYSTEM THROUGH MEMBRANE CONTACTORS. (3) CONTROL AND INSTRUMENTATION.   | Others                 | East Europe |
| 12944 | 6000010115 | Wastewater Package Treatment Plant                       | UNIT; WASTEWATER PACKAGE TREATMENT PLANT TYPE   | Others                 | East Europe |
| 12953 | 6000001314 | MONITOR; FIREFIGHTING, HYDRANT-MOUNTED TYPE,UL/FM        | MONITOR; FIREFIGHTING, HYDRANT-MOUNTED MANUALLY OPERATED TYPE,ANY RANGE,MEETING 21-SAMSS-16,INDUSTRIAL MONITOR SYSTEM, WILL BE INSTALLED ON#COM 6000001310  | Others                 | East Europe |
| 12962 | 6000002696 | PANEL CONTROL; FIRE PUMP TYPE,UL/FM LISTED/APPROVED,CO   | PANEL CONTROL; FIRE PUMP TYPE,UL 218 LISTED,FOR DIESEL/ELECTRICAL FIRE PUMP CONTROLLERS PANELS SHALL BE LISTED FOR +50 DEG CELSIUS, ENCLOSURE MUST BE NEMA 250/NEMA TYPE 4 FOR ONSHORE AND NEMA TYPE 4X FOR OFFSHORE AND NEAR SHORE ENVIRONMENT OUTDOOR WITH SHELTER INSTALLATION, INDOOR WITH AIR-CONDITIONED INSTALLATIONS ARE ALLOWED TO BE ONLY UL 218 LISTED WITHOUT 50 DEG/NEMA 4/4X ENCLOSURE, ALL PANELS MUST BE CAPABLE OF PROVIDING THE PUMPS SEQUENCING FUNCTIONS IN SAES-B-017 / SAES-P-116   | Others                 | East Europe |
| 12972 | 6000011727 | DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMO | DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMOKE DETECTION SYSTEM TYPE,UL/FM LISTED/APPROVED,COMPLY W,CONSISTING OF HIGH SENSITIVITY AIR ASPIRATED SMOKE DETECTION EQUIPMENT. MUST BE UL/FM LISTED/APPROVED AND COMPLY WITH NFPA, CONTACT FRPD RSA FOR DETAILS.   | Others                 | East Europe |
| 12982 | 6000017250 | SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR CO  | SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR COMMERCIAL COOKING EQUIPMENT TYPE,UL 300 LISTED,FIREFIGHTING SYSTEMS FOR,ALL COMPONENTS INCLUDING AGENT CYLINDERS, INSTRUMENTATION, FUSIBLE LINKS, INITIATING DEVICES, WET CHEMICAL, EXPPELLANT GAS, PENUMATIC RELEASE, ACTIVATION MECHANISM, CONTROL EQUIPMENT FOR POWER/GAS, COVERS, CONTROL PANELS.   | Others                 | East Europe |
| 12991 | 6000014422 | MONITOR; FIREFIGHTING, REMOTE CONTROL TYPE,ELECTRICAL    | MONITOR; FIREFIGHTING, REMOTE CONTROL TYPE,ANY RANGE,ELECT OR HYDRAULIC OPERATED SUPPLY,MEETING 21-SAMSS-16,FULL SYSTEM FULL CONTROL INDUSTRIAL APPLICATIONS MEETING PROJECT SPECS  | Others                 | East Europe |
| 13000 | 6000001011 | POWER SUPPLY;ELECTRICAL;SOLAR,CP                         | POWER SUPPLY ELECTRICAL; HODIC PROTECTION POWER PLY ELECTRICAL SOLAR POWER TYPE,ANY POWER,ANY,17-SAMSS-012  | Electrical             | East Europe |
| 13017 | 6000001040 | ANODE GALVANIC;MAGNESIUM,WITHOUT LEAD,CP                 | ANODE GALVANIC; MAGNESIUM,17-SAMSS-006,CATHODIC PROTECTION WITHOUT LEADS  | Electrical             | East Europe |
| 13027 | 6000012080 | BOX; JUNCTION, FOR U/G ANODE BED,CP                      | BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE,SIZE 2500CM3 (MINIMUM),CYLINDRICAL OR BOX SHAPE,12X16MM2 AND 2X70MM2 CONNECT,12+2 TERMINAL SCREW LUG COONECTN,FOR WEATHERPROOF (DIRECT BURIAL),NON-CLASSIFIED,NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER,OPTIONAL FINISH,OPTIONAL THK,17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION',MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLEFOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE  | Electrical             | East Europe |
| 13036 | 6000016800 | ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD                  | ANODE GALVANIC; ALUMINUM, WITHOUT LEAD,17-SAMSS-006,CATHODIC PROTECTION   | Electrical             | East Europe |
| 13045 | 6000016801 | ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP                  | ANODE GALVANIC; ZINC, WITHOUT LEAD,17-SAMSS-006,CATHODIC PROTECTION   | Electrical             | East Europe |
| 13054 | 6000016802 | ANODE; MMO GRID, WITHOUT LEAD; CP                        | ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL,MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION,FOR CATHODIC PROTECTION,17-SAMSS-007   | Electrical             | East Europe |
| 13131 | 6000011555 | UPS SYSTEM ABOVE 200 KVA                                 | POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER,17-SAMSS-516,SAES-P-103   | Electrical             | East Europe |
| 13140 | 6000012042 | UPS SYS ABOVE 10 TO 200KVA FOR IT & COMM                 | POWER SUPPLY UNINTERRUPTIBLE; ABOVE 10 KVA UP TO 200 KVA POWER,17-SAMSS-516,SAES-P-103,MANUFACTURER STANDARD PRODUCT, IT & COMMUNICATION PRODUCT RANGE  | Electrical             | East Europe |
| 13163 | 6000017620 | UNIT, PREFABRICATED SUBSTATION, Yes, Yes                 | UNIT; PREFABRICATED SUBSTATION TYPE,16-SAMSS-524,PREFABRICATED SUBSTATIONS RATED UP TO 52KV FOR OFFSHORE AND ONSHORE.   | Electrical             | East Europe |
| 13180 | 6000015923 | BUS; ISOLATED PHASE BUS DUCT                             | BUS; SIZE ANY,ANY,16-SAMSS-523,ISOLATED PHASE BUS DUCT  | Electrical             | East Europe |
| 13189 | 6000016991 | UNIT; MOBILE SUBSTATION; 69KV AND BELOW                  | UNIT; MOBILE SUBSTATION TYPE,OPERATING AT 69KV AND BELOW  | Electrical             | East Europe |
| 13199 | 6000017680 | COATING; ELECTRICAL INSULATORS, HIGH VOL                 | COATING; ELECTRICAL INSULATORS TYPE,FOR HIGH VOLTAGE,SILICON  | Electrical             | East Europe |
| 13207 | 6000012401 | OHL COMPOSITE INSULATOR FOR T & D                        | INSULATOR TRANSMISSION & DISTRIBUTION; OHL COMPOSITE TYPE,UP TO 230 KV,15-SDMS-02,15-TMSS-5   | Electrical             | East Europe |
| 13216 | 6000000774 | TRAY; CABLE, FIBERGLASS                                  | TRAY; CABLE TYPE,FIBERGLASS,NEMA FG-1,S-P-104 SEC. 9  | Electrical             | East Europe |
| 13224 | 6000014870 | POLE LINE; POWER TRANSMISSION, 69 KV                     | POLE LINE; POWER TRANSMISSION TYPE,ANY LG,TAPERED TUBULAR STEEL SHAPE,GALVANIZED STEEL,SEC 20-TMSS-02,RATED 69 KV AND UP.   | Electrical             | East Europe |
| 13247 | 6000002677 | FLOWMETER; ANNUBAR; PITOT TUBE;                          | FLOWMETER; ANNUBAR, PITOT TUBE TYPE   | Instrumentation and IT | East Europe |
| 13253 | 6000002689 | CALIBRATION GAS CYLINDER FOR GAS MONITOR                 | CYLINDER; CALIBRATION GAS TYPE,SIZE ANY,ANY,FOR COMBUSTIBLE & TOXIC GAS MONITORS ONLY   | Instrumentation and IT | East Europe |
| 13261 | 6000002742 | FLOWMETER;FOR REDUCE PIPING REQUIREMENTS                 | FLOWMETER; 34-SAMSS-010,SPECIALTY FLOWMETER FOR REDUCING PIPING REQUIREMENTS  | Instrumentation and IT | East Europe |
| 13286 | 6000002787 | MONITOR; GAS; COMBUSTIBLE; OPEN PATH TYP                 | MONITOR GAS; COMBUSTIBLE,ANY RANGE,34-SAMSS-514,OPEN PATH TYPE  | Instrumentation and IT | East Europe |
| 13302 | 6000002925 | ANALYZER; NIR SPECTROMETER;                              | ANALYZER; NIR SPECTROMETER TYPE,ANY RANGE,  | Instrumentation and IT | East Europe |
| 13312 | 6000002926 | TRANSMITTER; MULTIVARIABLE;                              | TRANSMITTER; MULTIVARIABLE TYPE,ANY RANGE   | Instrumentation and IT | East Europe |
| 13344 | 6000009906 | CUSTODY PRESET CONTROLLER, TRUCK LOADING                 | COMPUTER FLOW; CUSTODY PRESET CONTROLLER TYPE,34-SAMSS-847,FOR TRUCK LOADING AND UNLOADING SYSTEMS  | Instrumentation and IT | East Europe |
| 13353 | 6000009910 | CUSTODY WEIGH SCALE                                      | SCALE WEIGH; CUSTODY TRANSFER TYPE,34-SAMSS-180   | Instrumentation and IT | East Europe |
| 13370 | 6000014531 | MPFM FOR GAS FIELD APPLICATION                           | FLOWMETER; MULTIPHASE FLOWMETER TYPE,34-SAMSS-001,FOR GAS,FLOW  | Instrumentation and IT | East Europe |
| 13432 | 6000009899 | CUSTODY FLOW COMPUTER, LIQUID, PANEL-MNT                 | COMPUTER FLOW; PANEL MOUNTED TYPE,34-SAMSS-841,FOR LIQUID CUSTODY TRANSFER  | Instrumentation and IT | East Europe |
| 13449 | 6000009900 | CUSTODY FLOW COMPUTER, GAS, PANEL-MNTD                   | COMPUTER FLOW; PANEL MOUNTED TYPE,34-SAMSS-846,FOR GAS CUSTODY TRANSFER   | Instrumentation and IT | East Europe |
| 13457 | 1000757581 | H2S SCAVENGER, POWDER                                    | H2S SCAVENGER-ZINC-FREE IRON GLUCONATEADMIXTURE DRILLING MUD; POWDER FORM,IRON GLUCONATE,FOR SCAVENGES HYDROGEN SULFIDE FROM DRILLING FLUIDS,IRON GLUCONATE,25 KG (55.1 LBS.) PAIL OR SEALED BAG, VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATERPROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG (CONTAINER) SHALL BE AS FOLLOWS: 1ST PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LINER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLYETHYLENE RESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 80 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY). SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL.,H2S SCAVENGER-ZINC-FREE IRON GLUCONATE: A HIGHLY WATER SOLUBLE GRANULAR POWDER OF IRON GLUCONATE WITH NO HAZARDOUS SUBSTANCES AND USED TO SCAVENGE HYDROGEN SULFIDE FROM WATER-BASED AND OIL-BASED DRILLING FLUIDS. CHEMICAL AND PHYSICAL SPECIFICATIONS: PURITY (IRON GLUCONATE): >90%WT. APPEARANCE: LIGHT YELLOW-GREEN GRANULAR POWDER PH (1% DI WATER SOLUTION):4-5.5 SOLUBILITY: 100% SOLUBLE IN WATER ONE LB./BBL. OF PRODUCT REMOVES APPROXIMATELY 150-220 MG/LITER SULFIDES BULK DENSITY: 650-850 KG/M3 @ 68°F (20°C). SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. | Chemicals              | East Europe |
| 13468 | 1000022136 | WATER SOLUBLE CORROSION INHIBITOR                        | CORROSION INHIBITOR-MICROBIOSTAT ADDITIVE DRILLING FLUID; LIQUID FORM,CORROSION INHIBITOR AND BIOCID,FOR USED AS A PACKER FLUID CORROSION INHIBITOR,LIQUID AMINE WITH METHANOL MICROBIOSTAT,55 GAL (208 LITER) DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL.,CORROSION INHIBITOR-MICROBIOSTAT: A COMBINED LIQUID BIOCID AND CORROSION INHIBITOR, CATIONIC, WATER SOLUBLE HETEROCYCLIC AMINE BLENDED WITH METHANOL MICROBIOSTAT TO CONTROL AEROBIC AND ANAEROBIC BACTERIA GROWTH. IT IS USED AS A PACKER FLUID CORROSION INHIBITOR TO CONTROL GENERAL CORROSION ATTACK ON CASING, TUBING AND DOWNHOLE TOOLS IN CONTACT WITH CLEAR AND VISCOSIFIED COMPLETION BRINES. CHEMICAL AND PHYSICAL SPECIFICATIONS: LIGHT (OR PALE) COLORED LIQUID WATER SOLUBLE SPECIFIC GRAVITY @ 68°F (20°C): 0.98 -1.07. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT.   | Chemicals              | East Europe |

|       |            |                                       |   |           |             |
|-------|------------|---------------------------------------|---|-----------|-------------|
| 13477 | 1000022533 | CALCIUM CHLORIDE (77-78%) 2200 lb/BAG | CALCIUM CHLORIDE (77-78%) 1000 KG/BIG BAG ADDITIVE DRILLING FLUID; DRY FLAKES, PELLETS, OR GRANULAR FORM, DRY FLAKES, PELLETS, OR GRANULAR, WATER-SOLUBLE, USED AS WEIGHTING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE QUALITY IS MONITORED BY EXPEC ARC LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS. FOR USED AS WEIGHTING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE 77-78%, 1000 KG (2204 LBS) MULTI-WALL MOISTURE-PROOF POLYETHYLENE LINED BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP, BAG IS DISPOSABLE, TOP CLOSURE WATERTIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING AND OUTSIDE STORAGE. THE DISPOSABLE SUPER SACKS SHOULD HAVE AT LEAST 75% OF THEIR SHELF LIFE REMAINING (THE PERIOD FROM DATE OF MANUFACTURING TO THE WARRANTED EXPIRATION DATE) WHEN SHIPPED OR RECEIVED AT DESIGNATED PLACE OF DELIVERY TO SAUDI ARAMCO. REFER TO SAP NUMBER: 1000840600 FOR # DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGH THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TICKET PRINT DATA STATING: DATE AND TIME, COMPANY AND ADDRESS, TRUCK IDENTITY NUMBER, MATERIAL NAME, TRUCK WEIGHT BEFORE AND AFTER LOADING. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, ASTM D98-68/PRACTICE E29 / ASTM D345 - 02(2010) STANDARD TEST METHOD FOR CACL2 SAMPLING AND TESTING, CHEMICAL AND PHYSICAL. SPECIFICATIONS APPEARANCE: DRY FREE FLOWING WHITE FLAKES OR PELLETS - PURITY: CACL2 77% WT. MINIMUM PASS THROUGH 7/16 IN SCREEN: 100% WT. NO PARTICLES GREATER THAN 11MM IN ANY DIMENSION. M ALKALI CHLORIDES AS NA CL: 7% WT. MAXIMUM AND MGCL2: 1% WT. MAXIMUM HEAVY METALS AS PB: 0.005% WT. MAXIMUM - SULFATE AS CASO4: 0.05% WT. MAXIMUM. FE: 15 PPM MAXIMUM WATER INSOLUBLE: 0.20% WT. MAXIMUM.  | Chemicals | East Europe |
| 13486 | 1000022538 | CALCIUM CHLORIDE (94-98%) 2200 lb/BAG | CALCIUM CHLORIDE (94-98%) 1000 KG/BIG BAG ADDITIVE DRILLING FLUID; DRY FLAKES, PELLETS, OR GRANULAR FORM, DRY FLAKES, PELLETS, OR GRANULAR, WATER-SOLUBLE USED AS WEIGHTING AGENT FOR FORMULATING SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE QUALITY IS MONITORED BY EXPEC ARC LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS. FOR USED AS WEIGHTING AGENT FOR FORMULATING SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE 94-98%, 1000 KG (2204 LBS.) MULTI-WALL MOISTURE-PROOF POLYETHYLENE LINED BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP BAG IS DISPOSABLE, TOP CLOSURE WATERTIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING & OUTSIDE STORAGE. THE DISPOSABLE SUPER SACKS SHOULD HAVE AT LEAST 75% OF THEIR SHELF LIFE REMAINING (THE PERIOD FROM DATE OF MANUFACTURING TO THE WARRANTED EXPIRATION DATE) WHEN SHIPPED OR RECEIVED AT DESIGNATED PLACE OF DELIVERY TO SAUDI ARAMCO. REFER TO SAP NUMBER: 1000840600 FOR # DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGH THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TICKET PRINT DATA STATING: DATE AND TIME, COMPANY AND ADDRESS, TRUCK IDENTITY NUMBER, MATERIAL NAME, TRUCK WEIGHT BEFORE AND AFTER LOADING. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, ASTM D98-68/PRACTICE E29 / ASTM D345 - 02 (2010) STANDARD TEST METHOD FOR CACL2 SAMPLING AND TESTING, CHEMICAL AND PHYSICAL. SPECIFICATIONS APPEARANCE: DRY FREE FLOWING WHITE FLAKES OR PELLETS - PURITY: CACL2 94 %WT. MINIMUM PASS THROUGH 4 MESH SCREEN: 100% WT. NO PARTICLES GREATER THAN 4.5MM IN ANY DIMENSION ALKALI CHLORIDES AS NA CL: 5.0% WT. MAXIMUM - AS MGCL2: 0.5% WT. MAXIMUM HEAVY METALS AS PB: 0.005% WT. MAXIMUM. SULFATE AS CASO4: 0.05% WT. MAXIMUM. FE: 15 PPM MAXIMUM WATER INSOLUBLE: 0.20% WT. MAXIMUM. REMAINING COMPONENT IS WATER OF CRYSTALLIZATION PH:   | Chemicals | East Europe |
| 13494 | 1001129231 | Anhydrous Calcium Bromide Dry         | CALCIUM BROMIDE [CA BR2] DRY 95% ADDITIVE DRILLING FLUID; WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR FORM, CALCIUM BROMIDE (CA BR2) DRY 95% FOR WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR WITH NO LUMPS, CALCIUM BROMIDE SALT USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CA BR2 SALT SOLUTION WITH MINIMUM DENSITY OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUT. CALCIUM BROMIDE (CA BR2) DRY 95%, 25 KG (55.1 LB) BAG (NET WEIGHT), WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR WITH NO LUMPS. CALCIUM BROMIDE SALT USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CA BR2 SALT SOLUTION WITH MINIMUM DENSITY OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUTIONS TO FORMULATE. SOLIDS-FREE NON-DAMAGING HIGH-DENSITY BRINE BLENDS WITH DENSITIES UP TO 143 PCF (19.1 LB/GAL). APPEARANCE: WHITE FREE FLOWING POWDER CRYSTALLINE OR GRANULAR, NO LUMPS SATURATED BRINE SOLUTION: CLEAR COLORLESS PURITY AS CA BR2, PERCENT 95 MINIMUM SG AT 77 DEG F (25 DEG C): 3.2 - 3.4 SOLUBILITY IN WATER AT 68 DEG F (20 DEG C), WT PERCENT 58 MINIMUM IRON, PPM: 10 MAXIMUM CHLORIDE AS CA CL2, WT PERCENT 1.5 MAXIMUM SULFATE, PPM: 200 MAXIMUM HEAVY METALS, PPM: PB: 5 MAXIMUM HG: 1 MAXIMUM AS: 5 MAXIMUM CD: 5 MAXIMUM SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET MSDS.   | Chemicals | East Europe |
| 13502 | 1001130337 | Radiagreen EME Salt                   | EXTREME LUBRICANT FOR UNDERBALANCE COILED TUBING DRILLING ADDITIVE DRILLING FLUID; YELLOW TO DARK AMBER LIQUID FORM, BLEND OF FATTY AMIDES ACID AND ESTERS, OR POLYOL ESTER OF FATTY ACIDS. FOR COMBUSTIBLE AMBER LIQUID BLEND OF POLYMERIZED FATTY AMIDE, ACID AND ESTER, OR POLYOL ESTER OF FATTY ACID USED IN SOLIDS-FREE DRILL-IN FLUIDS OR MONOVALENT BRINES TO REDUCE TORQUE AND DRAG IN HIGHLY TORTUOUS OR EXTENDED REACH WELLS, INCLUDING COILED TUBING, BLEND OF FATTY AMIDES ACID AND ESTERS, OR POLYOL ESTER OF FATTY ACIDS. 55 GAL (208 LITER) DRUM (NET VOLUME). APPEARANCE: YELLOW TO DARK AMBER. SWEET AND MILD ODOR SOLUBILITY IN WATER: INSOLUBLE IN WATER SPECIFIC GRAVITY AT THE RANGE BETWEEN 68F (20C): 0.95 - 1.05 FLASH POINT (PMCC): GREATER THAN 212F (100C) IT WILL NOT GREASE OR PHASE OUT. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET MSDS. IT IS NON-DAMAGING TO PRODUCING ZONES, NON-TOXIC, ENVIRONMENTALLY FRIENDLY AND HELPS PREVENT BIT BALLING AND DIFFERENTIAL STICKING. THE PRODUCT IS COMPATIBLE WITH SEAWATER AND MONOVALENT BRINE-BASED DRILLING FLUIDS. OTHER ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSELY AFFECT FLUID PROPERTIES.  | Chemicals | East Europe |
| 13511 | 1000823699 | THINNER OBM                           | THINNER/DISPERSANT OBM CONDITIONER ADDITIVE DRILLING FLUID; LIQUID FORM, SULFONATE BLEND WITH FATTY ACID, FOR USED TO LOWER RHEOLOGICAL PROPERTIES OF OIL BASE FLUIDS. POLYOLEFIN/ORGANIC SULFONATE BLEND WITH FATTY ACID, 55 GALLON (208 LITER) DRUM. SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. THINNER/DISPERSANT OIL-BASE MUD CONDITIONER: LIQUID POLYOLEFIN/ORGANIC SULFONATE BLEND WITH FATTY ACID DERIVATIVES USED TO LOWER RHEOLOGICAL PROPERTIES FOR OIL BASE FLUIDS. OTHER ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSELY AFFECT FLUID PROPERTIES. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: DARK AMBER LIQUID SOLUBILITY: INSOLUBLE IN WATER SPECIFIC GRAVITY: 0.90 - 0.96 FLASH POINT (PMCC): > 212°F (100°C) SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT   | Chemicals | East Europe |
| 13520 | 1000021672 | HYDROXY ETHYL CELLULOSE (HEC)         | HYDROXY ETHYL CELLULOSE (HEC) ADDITIVE DRILLING FLUID; DRY FREE FLOWING WHITE POWDER FORM, HYDROXY ETHYL CELLULOSE (HEC), FOR MULTI-PURPOSE VISCOSIFYING POLYMER FOR FRESHWATER, SEA WATER SALT SATURATED WATER AND COMPLEX BRINE SYSTEMS, HYDROXY ETHYL CELLULOSE (HEC), 50 LBS. (22.7 KG). MULTI-WALLED PAPER BAG, VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATER PROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY (INTERIOR PLY) 10H COATING 0.00285 MICRON ALUMINUM SHEET 6H PE COATING 50 LB NATURAL KRAFT PAPER THE ALUMINUM SHEET IS COATED ON ONE SIDE WITH 10H PE THE 10H IS NEXT TO THE PRODUCT. THE COATED ALUMINUM SHEET LAMINATED TO THE 50 LB KRAFT PAPER. 2ND PLY 50 LB NATURAL KRAFT PAPER. 3RD PLY 50 LB NATURAL KRAFT PAPER. 4TH PLY 50 LB BLEACH WHITE NATURAL KRAFT PAPER (EXTERIOR PLY). THE BLEACHED PAPER IS "FULLY BLEACHED WHITE". SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. HEC-HYDROXY ETHYL CELLULOSE: IS A NON-IONIC POLYMER, DRY FREE FLOWING WHITE POWDER DISPERSES EASILY AND RAPIDLY DISSOLVES IN FRESH WATER, SEA WATER, SALT SATURATED BRINE AND COMPLEX DIVALENT BRINE BLENDS TO DEVELOP VISCOSITY RELATED CHARACTERISTICS FOR DRILLING AND COMPLETION FLUIDS THAT IMPART MINIMUM FORMATION DAMAGE. THE HEC SHOULD BE EASILY BROKEN WITH ACID, ENZYMES, OR OXIDIZING AGENTS TO MAXIMIZE THE POTENTIAL FOR HYDROCARBON RECOVERY AND SHOULD BE STABLE AT TEMPERATURES UP TO 250°F (121°C). CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: WHITE TO CREAM-COLORED HYDROXYETHYLCELLULOSE (HEC) SHALL NOT CONTAIN ANY STARCH, GUAR OR ANY OTHER POLYMERS OR THEIR DERIVATIVES. MOISTURE: 8% WT. MAXIMUM SPECIFIC GRAVITY, 1.38-1.40 PARTICLE SIZE: PASS THROUGH U.S. 20 MESH SCREEN (840 MICRON): 100% 1% WT. SOLUTION IN DEIONIZED WATER BROOKFIELD SPINDLE #4, 30 RPM. (ASTM D 2196-91): VISCOSITY AT 77°F (25°C): 4,400-6,500 PH @ 77°F (25°C): 6-7 SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. | Chemicals | East Europe |

|       |            |  |   |                        |             |
|-------|------------|--|---|------------------------|-------------|
| 13534 | 1000814796 | ACETIC ACID > 96%  | MICRO WASH-GLACIAL ACID-BAKER HUGHES ADDITIVE DRILLING FLUID; CLEAR, COLORLESS LIQUID FORM, LIQUID CARBOXYLIC ACID, FOR USE FOR ACIDIZING SOLUBLE CALCIUM CARBONATE PARTICLES AFTER USING OBM, LIQUID CARBOXYLIC ACID WITH THE MOLECULAR FORMULA OF CH3COOH, 275 GALLON IBC TOTE CONTAINER SPECIFICATIONS: LEAK PREVENTION MECHANISM: VALVE CLOSED WITH SCREW CAP PE-DISC AND FLAT GASKET, VALVE HANDLE SECURED WITH A LOCKING SCREW. INNER CONTAINER SHOULD BE HIGH MOLECULAR WEIGHT, HIGH DENSITY POLYETHYLENE (HMWHDPE) W/EXTRUSION BLOW MOLDED, SPECIALLY SHAPED TO ENSURE COMPLETE DISCHARGE OF CONTENTS. OUTER CONTAINER SHOULD BE RIGID, WELDED GALVANIZED TUBULAR STEEL GRID WITH A LARGE PERMANENTLY FIXED IDENTIFICATION PLATE. MOLDED BOTTOM SHELL SHOULD BE PRESSED GALVANIZED STEEL BASE SHAPED TO SUPPORT THE INNER CONTAINER AND ASSIST TOTAL DRAINAGE. PALLETS SHOULD BE STEEL AND HAVE 4 WAYS ENTRIES. SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, MICRO-WASH ACETIC ACID-BAKER HUGHES: CLEAR LIQUID CARBOXYLIC ACIDS WITH THE FORMULA OF CH3COOH, USED FOR ACIDIZING SOLUBLE CALCIUM CARBONATE PARTICLES, AFTER USING OBM, IN WELLBORE REMEDIATION AND CLEANUP PROCESS TO IMPROVE WELL PRODUCTIVITY. BAKER HUGHES MICRO-WASH ACID SYSTEM CONSISTS OF: PRIME-743 (SAP #1000811425), PRIME-760 (SAP #1000811426), PRIME-770 (SAP #1000811427), OHR-759 (SAP #1000811421), OHR-AC (SAP #1000811422), OHR-757 (SAP #1000811423), OHR-750 (SAP #1000811424), GLACIAL ACETIC ACID (SAP #1000814796), AND FORMIC ACID (SAP #1000811877). CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: CLEAR LIQUID, STRONG PUNGENT VINEGAR ODOR ACETIC ACID: >96% DENSITY: 1040-1050 KG/M <sup>3</sup> (1.040-1.050 G/CM <sup>3</sup> ) AT 25°C BOILING POINT: 242.6 °F (117 °C) MINIMUM FLASH POINT: >39 °C/102 °F (CLOSED CUP) AUTO-IGNITION TEMPERATURE: 799°C. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT   | Chemicals              | East Europe |
| 13541 | 1000021930 | XANTHAN GUM (POWDER)                                       | XANTHAN GUM BIO-POLYMER ADDITIVE DRILLING FLUID; DRY FREE FLOWING POWDER FORM, PURE XANTHAN GUM BIO-POLYMER, FOR IS USED AS A RHEOLOGY CONTROL AND SUSPENSION AGENT IN FRESH WATER, SEA WATER, AND SATURATED BRINE-BASED DRILLING, COMPLETION AND WORKOVER FLUIDS. PURE XANTHAN GUM BIO-POLYMER, 25 KG (55.1 LBS.) MULTI-WALL PAPER BAG, VALVE/SPOUT TYPE COMPLETELY SEALED, MOISTURE AND WATER PROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY 50 LB. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 50 LB. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LINER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLY-ETHYLENE RESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 50 LB. NATURAL KRAFT PAPER. 5TH PLY 60 LB. NATURAL KRAFT PAPER. WET STRENGTH (EXTERIOR PLY) SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, API SPECIFICATION 13A 18TH EDITION, AUGUST 2010, ERRATA 1, AUGUST 2014. XANTHAN GUM BIO-POLYMER: DRILLING GRADE PURE, DRY, FREEFLOWING FINE POWDER ANIONIC POLYSACCHARIDE, READILY SOLUBLE IN WATER BRINE. THE BIO-POLYMER PRODUCED BY A DISTINCT FERMENTATION PROCESS OF XANTHOMONAS CAMPESTRIS. THE PRODUCT SHALL NOT CONTAIN ANY OTHER POLYSACCHARIDE, SUCH AS STARCH, GUAR GUM OR OTHER NATURALLY OCCURRING POLYMERS OR THEIR DERIVATIVES. IT IS USED AS A RHEOLOGY CONTROL AND SUSPENSION AGENT IN FRESH WATER, SEA WATER, AND SATURATED BRINE-BASED DRILLING, COMPLETION AND WORKOVER FLUIDS. XANTHAN GUM QUALITY IS MONITORED EXPECT LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS. CHEMICAL AND PHYSICAL SPECIFICATIONS: OFF-WHITE, FREE-FLOWING GRANULAR POWDER. SCREEN ANALYSIS: LESS THAN 425 MM (PASS THROUGH 40 US MESH SCREEN) - 95% MINIMUM LESS THAN 75 MM (PASS THROUGH 200 US MESH SCREEN) - 50% MAXIMUM QUALITATIVE LAB TESTS WILL BE PERFORMED TO DETECT THE PRESENCE OF: STARCH, GUAR, OR THEIR DERIVATIVES: ABSENT CELLULOSE ENZYMES: NEGATIVE SULFATE REDUCING BACTERIA: NEGATIVE CELLULOLYTIC BACTERIA: NEGATIVE MOISTURE CONTENT: 10% MAXIMUM NO INGREDIENT LEVELS GREATER THAN OR EQUAL TO 0.1% WT. TO BE IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN PERFORMANCE REQUIREMENTS: LOW XANTHAN GUM CONCENTRATION DEVELOPS PSEUDOPLASTIC FLUID BEHAVIOR (HIGH VISCOSITY UNDER LOW SHEER AND LOW VISCOSITY UNDER HIGH SHEER) TEMPERATURE STABILITY: STABLE | Chemicals              | East Europe |
| 13548 | 1000021557 | CALCIUM BROMIDE (SOL 53% WT MINIMUM)                       | CALCIUM BROMIDE (CaBr <sub>2</sub> ) SOLUTION ADDITIVE DRILLING FLUID; SINGLE SALT (CaBr <sub>2</sub> ), SOLIDS-FREE BRINE FORM, CALCIUM BROMIDE (CaBr <sub>2</sub> ) FOR A PURE SOLIDS-FREE BRINE USED IN COMPLETION FLUIDS AND CAN BE BLENDED WITH ZINC/CALCIUM BROMIDE AND CALCIUM CHLORIDE SOLUTIONS TO FORMULATE NON-DAMAGING FLUIDS OF DENSITIES UP TO 143 PCF (19.1 LB/GAL), CALCIUM BROMIDE, 55 GAL (208 LITER) 340 KG POLYPROPYLENE-LINED STEEL DRUMS SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, REFER TO API 13J FIFTH EDITION, OCTOBER 2014, CALCIUM BROMIDE SOLUTION (CaBr <sub>2</sub> ): PURE, SOLIDS-FREE BRINE USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CaBr <sub>2</sub> SALT SOLUTION WITH MINIMUM DENSITY OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUTIONS TO FORMULATE, SOLIDS-FREE NON-DAMAGING HIGH DENSITY BRINE BLENDS WITH DENSITIES UP TO 143 PCF (19.1 LB/GAL). CHEMICAL AND PHYSICAL SPECIFICATIONS: CALCIUM BROMIDE (CaBr <sub>2</sub> ) SOLUTION 52% WT. MINIMUM COLORLESS, CLEAR LIQUID WITH NO ODOR CHLORIDE CONTENT: 1000 PPM (0.1% WT.) MAXIMUM TURBIDITY: 6 NTU MAXIMUM SULPHATE CONTENT: 100 PPM (0.01% WT.) MAXIMUM IRON CONTENT: 5 PPM MAXIMUM TOTAL HEAVY METALS (Zn, Pb, Hg, As AND Cd): 5 PPM MAXIMUM DENSITY: 1.70 GM/CC (14.2 LB/GAL / 106.2 PCF) AT 70°F (20.1°C) MINIMUM PH OF 10% SOLUTION IN DI WATER: [BASIC] 7 - 8.5 TRUE CRYSTALLIZATION TEMPERATURE (TCT): 10°F (-12.2°C) SOLIDS RETAINED ON 5 MICRONS FILTER PAPER: NONE SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). "UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT"  | Chemicals              | East Europe |
| 13561 | 6000007293 | COUPLING: OCTG; HIGH NICKEL                                | COUPLING OCTG; DUPLEX STAINLESS STEEL AND NICKLE BASE ALLOYS, SEAMLESS, API-SCRA, ISO-13680 AND 45-SAMSS-006, GR API-SCRA GROUP-2 TO GROUP-4 GRADES, SIZE ANY, CAL-IV QUALIFIED THREAD END CONN, ANY LG   | Pipe & OCTG            | East Europe |
| 13566 | 6000007303 | CASING: OCTG; HIGH NICKEL; SEAMLESS                        | CASING OCTG; DUPLEX STAINLESS STEEL AND NICKLE BASE ALLOYS, SEAMLESS, API-SCRA, ISO-13680 AND 45-SAMSS-006, GR API-SCRA GROUP-2 TO GROUP-4 GRADES, SIZE 4-1/2 IN AND LARGER SIZES, CAL-IV QUALIFIED THREAD END CONN   | Pipe & OCTG            | East Europe |
| 13572 | 6000007305 | CROSSOVER: OCTG; HIGH NICKEL                               | ADAPTER OCTG NIPPLE/CROSSOVER/SWAGE; DUPLEX STAINLESS STEEL AND NICKLE BASE ALLOYS, SEAMLESS, API-SCRA, ISO-13680 AND 45-SAMSS-006, GR API-SCRA GROUP-2 TO GROUP-4 GRADES, CAL-IV QUALIFIED THREAD  | Pipe & OCTG            | East Europe |
| 13579 | 6000007307 | PUP JOINT: CASING OCSG; HIGH NICKEL                        | PUP JOINT OCTG; DUPLEX STAINLESS STEEL AND NICKLE BASE ALLOYS, SEAMLESS, API-SCRA, ISO-13680 AND 45-SAMSS-006, GR API-SCRA GROUP-2 TO GROUP-4 GRADES, SIZE 4-1/2 IN AND LARGER SIZES, CAL-IV QUALIFIED THREAD END CONN  | Pipe & OCTG            | East Europe |
| 13585 | 6000015250 | Non-Metallic OCTG Products                                 | CASING OCTG; THERMOSETTING POLYMERS REINFORMED WITH FIBERGLASS, API 15HR, 45-SAMSS-006 API-SL, SIZE 4-1/2 IN -10-3/4 IN   | Instrumentation and IT | East Europe |
| 13595 | 6000010721 | Expandable Pipe System                                     | UNIT; ANY TYPE, EXPANDABLE CASING & ACCESSORIES   | Drilling Equipment     | East Europe |
| 13596 | 6000010721 | Expandable Pipe System                                     | UNIT; ANY TYPE, EXPANDABLE CASING & ACCESSORIES   | Drilling Equipment     | East Europe |
| 13604 | 6000015784 | Multilateral system  | LATERAL; ANY NPS, ANY LATERALS AND ACCESSORIES EQUIPMENT  | Drilling Equipment     | East Europe |
| 13609 | 6000004089 | Open Hole Expandable latch anchor whipstock                | WHIPSTOCK; RETRIEVABLE TYPE, ANY CSG DRE, DRILLING OPERATIONS   | Drilling Equipment     | East Europe |
| 13614 | 6000004043 | Single ICD Installation                                    | CEMENTER; ANY TOOL OD, ANY DRILL OD, MULTI STAGE INFLATABLE AND MECHANICAL PACKER FOR CEMENTING (DV)  | Drilling Equipment     | East Europe |
| 13619 | 6000004047 | Isolation packer expandable                                | PACKER; ANY TYPE, MECHANICAL, SWELLABLE, ISOLATION PACKERS  | Chemicals              | East Europe |
| 13977 | 6000013000 | Multiplexer; Foundation Fieldbus (FF)                      | MULTIPLEXER; FOUNDATION FIELDBUS (FF) TYPE, SAES-I-904, AA MULTI-INPUT TEMPERATURE  | Instrumentation and IT | East Europe |
| 13987 | 6000010128 | SUBMARINE, POWER CABLE, 69 KV THRU 230 KV                  | CABLE ELECTRICAL HIGH VOLTAGE; 69 KV THROUGH 230 KV SUPPLY, ANY CONDUCTO SUBMARINE POWER CABLE TYPE, COPPER CONDUCTO, POWER TYPE, 15-SAMSS-504  | Electrical             | East Europe |
| 13995 | 6000000999 | FORM-WOUND BRUSHLESS SYNCH. MOTOR                          | MOTOR SYNCHRONOUS; 500 HP MINIMUM POWER, 4000 V MINIMUM, 3 PHASE PHASE, HORIZONTAL MTG, 17-SAMSS-520  | Electrical             | East Europe |
| 14005 | 6000018110 | FENCE, RIGID WELDED MESH (RWM), 3 METERS                   | FENCE; RIGID WELDED MESH (RWM) TYPE, 3 METERS HEIGHT, 3 TO 3.5 METERS WIDTH HT, STAINLESS STEEL, SAES-O-202   | Others                 | East Europe |
| 12826 | 6000001838 | CONTROLLER; PROGRAMMABLE LOGIC; ENERGY M                   | CONTROLLER PROGRAMMABLE LOGIC; ANY INPUT PT, ANY OUTPUT P, SAES-K-011, UL-916 ASHRAE 135, ENERGY MANAGEMENT SYSTEM: BUILDING  | Static Equipment       | West Europe |
| 12860 | 6000014875 | DAMPER; BACK DRAFT   | DAMPER; BACK DRAFT TYPE, SIZE ANY, AMCA 511   | Others                 | West Europe |
| 12868 | 6000014878 | AIR HANDLING UNIT; CUSTOM BUILT                            | AIR HANDLING UNIT; AIR HANDLING UNIT CUSTOM BUILT TYPE, ANY, AMCA 99, NFPA 70, NFPA 90A, AHRI 430, AHRI 410 SEAL FOR COILS, AMCA 210 AND 301 SEA FOR FANS   | Others                 | West Europe |
| 12877 | 6000002419 | Water Filter Media   | FILTER; SAND BED TYPE, FOR WATER SERVICE, FILTER MEDIA, WATER, 32-SAMSS-034, WATER FILTER MEDIA INCLUDING: SAND, ANTHRACITE, MANGANESE GREEN SAND, BERM, GARNET, GRAVEL (AS SUPPORTING LAYER). MERGE WITH 6000001776, 6000001777, 6000002510  | Others                 | West Europe |
| 12886 | 6000008555 | Thermal & Electro-dialysis Desal Sys                       | DESALINATION; THERMAL & ELECTRO-DIALYSIS DESALINATION SYSTEMS TYPE, REVERSAL (EDR) EQUIPMENT  | Others                 | West Europe |
| 12902 | 6000010110 | Water Media Filters  | FILTER; WATER MEDIA FILTERS TYPE  | Others                 | West Europe |
| 12912 | 6000012655 | WASTEWATER ODOR CONTROL                                    | CONTROL; WASTEWATER ODOR TYPE   | Others                 | West Europe |
| 12922 | 6000016133 | REACTOR; MOVING BED BIOLOGICAL                             | REACTOR; MOVING BED BIOLOGICAL REACTOR TYPE, SAES-A-104, IS A SINGLE OR MULTIPLE- STAGE ACTIVATED SLUDGE BIOLOGICAL TREATMENT PROCESS SYSTEM FOR CARBON AND/OR NITROGEN REMOVAL USING MOVING PLASTIC CARRIERS WITH FIXED BIOFILM  | Others                 | West Europe |
| 12947 | 6000001314 | MONITOR; FIREFIGHTING, HYDRANT-MOUNTED TYPE, UL/FM         | MONITOR; FIREFIGHTING, HYDRANT-MOUNTED MANUALLY OPERATED TYPE, ANY RANGE, MEETING 21-SAMSS-16, INDUSTRIAL MONITOR SYSTEM, WILL BE INSTALLED ON#COM 6000001310   | Others                 | West Europe |
| 12966 | 6000011727 | DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMOKE | DETECTOR FIRE PROTECTION; VERY EARLY WARNING ASPIRED SMOKE DETECTION SYSTEM TYPE, UL/FM LISTED/APPROVED, COMPLY W, CONSISTING OF HIGH SENSITIVITY AIR ASPIRED SMOKE DETECTION EQUIPMENT. MUST BE UL/FM LISTED/APPROVED AND COMPLY WITH NFPA, CONTACT FRPD RSA FOR DETAILS.  | Others                 | West Europe |
| 12976 | 6000017250 | SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR CO    | SUPPRESSOR; FIRE PROTECTION, WET CHEMICAL SYSTEM FOR COMMERCIAL COOKING EQUIPMENT TYPE, UL 300 LISTED, FIRE EXTINGUISHING SYSTEMS FOR ALL COMPONENTS INCLUDING AGENT CYLINDERS, INSTRUMENTATION, FUSIBLE LINKS, INITIATING DEVICES, WET CHEMICAL, EXPELLANT GAS, PENUMATIC RELEASE, ACTIVATION MECHANISM, CONTROL EQUIPMENT FOR POWER/GAS, COVERS, CONTROL PANELS.  | Others                 | West Europe |
| 13012 | 6000001040 | ANODE GALVANIC; MAGNESIUM, WITHOUT LEAD, CP                | ANODE GALVANIC; MAGNESIUM, 17-SAMSS-006, CATHODIC PROTECTION WITHOUT LEADS  | Electrical             | West Europe |

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| 13021 | 6000012080 | BOX: JUNCTION, FOR U/G ANODE BED, CP         | BOX ELECTRICAL; CATHODIC PROTECTION UNDERGROUND ANODE BED JUNCTION BOX TYPE, SIZE 2500CM3 (MINIMUM), CYLINDRICAL OR BOX SHAPE, 12X16MM2 AND 2X70MM2 CONNECT, 12+2 TERMINAL SCREW LUG COONECTN, FOR WEATHERPROOF (DIRECT BURIAL), NON-CLASSIFIED, NON-METALLIC SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATER, OPTIONAL FINISH, OPTIONAL THK, 17-SAMSS-008 'JUNCTION BOX FOR CATHODIC PROTECTION', MEMBRANE GLANDS & FILLER/ SEALING COMPOUND SUITABLE FOR DIRECT BURIAL AND IMMERSION SERVICE IN AMBIENT TEMPERATURE SEAWATE   | Electrical             | West Europe |
| 13031 | 6000016800 | ANODE; GALVANIC; ALUMINUM, WITHOUT LEAD      | ANODE GALVANIC; ALUMINUM, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  | Electrical             | West Europe |
| 13040 | 6000016801 | ANODE; GALVANIC; ZINC, WITHOUT LEAD; CP      | ANODE GALVANIC; ZINC, WITHOUT LEAD, 17-SAMSS-006, CATHODIC PROTECTION  | Electrical             | West Europe |
| 13049 | 6000016802 | ANODE; MMO GRID, WITHOUT LEAD; CP            | ANODE IMPRESSED CURRENT; GRID SYSTEM, WITHOUT LEAD TERMINAL, MIXED METAL OXIDE COATED TITANIUM BASE, TITANIUM CONDUCTOR BAR & ANODE WIRE CONNECTION, FOR CATHODIC PROTECTION, 17-SAMSS-007   | Electrical             | West Europe |
| 13057 | 6000000030 | PIPE; NON-METALLIC; THERMOPLASTIC; CPVC;     | PIPE NON-METALLIC; ANY NPS, CHLORINATED POLYVINYL CHLORIDE (CPVC), ISO 15877, ASTM F441, SOLID-WALL, MAXIMUM TEMPERATURE IS 82 C HOT AND COLD WATER INSTALLATIONS AND FOR HEATING SYSTEM INSTALLATIONS SYSTEM. HOT AND COLD WATER INSTALLATIONS WITHIN BUILDINGS, WATER FOR HUMAN CONSUMPTION, WATER FOR HEATING SYSTEMS.  | Nonmetallic            | West Europe |
| 13064 | 6000000031 | PIPE; NON-METALLIC; ALL SIZES; THERMOPLA     | PIPE NON-METALLIC; ANY NPS, THERMOPLASTIC, UPVC, M D1785, 1452 AND ASTM D4216, SOLID-WALL, MAXIMUM TEMPERATURE IS 45 C, (UNPLASTICIZED) POLYVINYL CHLORIDE (PVC/ UPVC) WATER SUPPLY AND FOR BURIED AND ABOVE-GROUND DRAINAGE AND SEWERAGE UNDER PRESSURE WATER MAINS AND SERVICES, WATER ABOVE GROUND FOR BOTH OUTSIDE AND INSIDE BUILDINGS, BURIED AND ABOVE GROUND DRAINAGE AND SEWERAGE UNDER PRESSURE, HYDROCHLORIC ACID, PHOSPHORIC ACID AND LPG, NGL.  | Nonmetallic            | West Europe |
| 13073 | 6000000042 | Pipe; Nonmetallic, (RTP) PIPE                | PIPE NON-METALLIC; MAXIMUM 8 INCHES NPS, REINFORCED THERMOPLASTIC (RTP), INTERNAL / EXTERNAL LINING THERMOPLASTIC (PE- RT, PP PA, PVDF, PREFABRICATED SPOOL ENDS, FOR WATER AND HYDROCARBON APPLICATIONS MAX TEMP 180 F, API RP 155, ONSHORE / OFFSHORE WATER AND HYDROCARBON APPLICATIONS   | Nonmetallic            | West Europe |
| 13101 | 6000013160 | PIPE&FITTINGS; NON-METAL; RTR                | PIPE NON-METALLIC; MAXIMUM 14 IN NPS, REINFORCED THERMOSETTING RESIN, REINFORCED THERMOSETTING RESIN (RTR), FOR WATER (NON-UTILITY) AND HYDROCARBON APPLICATIONS MAX TEMP 200 F, 01-SAMSS-042, API 15HR API 15LR   | Pipe & OCTG            | West Europe |
| 13107 | 6000013900 | PIPE; NON-METAL; LINED PIPING SYSTEMS        | PIPE NON-METALLIC; SIZES RANGES FROM NPS 1 TO 20 NPS, ASME/ANSI CLASS 150 AND 300 SUPPLY, CARBON STEEL, NGED PIPE&FITTINGS SYSTEM VY DUTY PTFE& PFA LINED, 01-SAMSS-025, CORROSIVE FLUIDS INCLUDING ACIDS AND ALKALINE SOLUTIONS SUCH AS HYDROCHLORIC ACID, NITRIC ACID, PHOSPHORIC ACID, CHLORINE/WATER, HYDRAULIC OIL, HYPOCHLORITE (SODIUM OR CALCIUM), SODIUM HYDROXIDE (CAUSTIC SODA), WATER, SEA/SALINE, WATER, AERATED AQUIFER, DESALINATION BRINE, PRODUCED WATER, DISPOSAL SALT, WATER BRINE.   | Pipe & OCTG            | West Europe |
| 13114 | 6000014681 | SERVICE; WET-TYPE COMPOSITE REPAIR EXT.      | SERVICE; WET-TYPE THERMOSET COMPOSITE FIBER REINFORCED COMPOSITE. TYPE, SAEP-345, ASME-PCC2 ISO 24817, USE FOR WATER, HYDROCARBON, CHEMICALS PLANT PIPING AND PIPELINES. SUITABLE FOR EXTERNAL CORROSION UP TO 80 PERCENT METAL LOSS. FOR PLANT PIPING AND FITTINGS, IT SHALL BE UTILIZED AS A TEMPORARY REPAIR WITH A PRIOR APPROVAL FROM NONMETALLIC SCC.  | Pipe & OCTG            | West Europe |
| 13119 | 6000017130 | FIRE-RETARDANT RTR                           | PIPE NON-METALLIC; ANY NPS, ANY, 01-SAMSS-034, SAES-B-017, ISO 14692, PIPE & FITTING, FIRE-RETARDANT NONMETALLIC RTR FOR ABOVEGROUND FIREWATER SYS. EPOXY BASED REINFORCED THERMOSETTING RESIN PRESSURIZED PIPE. FILAMENT WOUND MANUFACTURING PROCESS WITH ADDITIONAL FIRE RETARDANT LAYER FOR ABOVEGROUND FIREWATER PIPING SYSTEMS (RAW/FIRE COMBINED WATER SYSTEM AND DEDICATED FIREWATER SYSTEM) IN ACCORDANCE WITH FM 1614. FIRE PERFORMANCE CLASSIFICATION AS PER ISO 14692-2 SECTION 6.5.2.  | Nonmetallic            | West Europe |
| 13127 | 6000011555 | UPS SYSTEM ABOVE 200 KVA                     | POWER SUPPLY UNINTERRUPTIBLE; ABOVE 200 KVA POWER, 17-SAMSS-516, SAES-P-103  | Electrical             | West Europe |
| 13133 | 6000012042 | UPS SYS ABOVE 10 TO 200KVA FOR IT & COMM     | POWER SUPPLY UNINTERRUPTIBLE; ABOVE 10 KVA UP TO 200 KVA POWER, 17-SAMSS-516, SAES-P-103, MANUFACTURER STANDARD PRODUCT, IT & COMMUNICATION PRODUCT RANGE  | Electrical             | West Europe |
| 13157 | 6000017620 | UNIT, PREFABRICATED SUBSTATION, Yes, Yes     | UNIT; PREFABRICATED SUBSTATION TYPE, 16-SAMSS-524, PREFABRICATED SUBSTATIONS RATED UP TO 52KV FOR OFFSHORE AND ONSHORE.  | Electrical             | West Europe |
| 13174 | 6000015923 | BUS; ISOLATED PHASE BUS DUCT                 | BUS; SIZE ANY, ANY, 16-SAMSS-523, ISOLATED PHASE BUS DUCT  | Electrical             | West Europe |
| 13183 | 6000016991 | UNIT; MOBILE SUBSTATION; 69KV AND BELOW      | UNIT; MOBILE SUBSTATION TYPE, OPERATING AT 69KV AND BELOW  | Electrical             | West Europe |
| 13193 | 6000017680 | COATING, ELECTRICAL INSULATORS, HIGH VOL     | COATING; ELECTRICAL INSULATORS TYPE FOR HIGH VOLTAGE, SILICON  | Electrical             | West Europe |
| 13202 | 6000012401 | OHL COMPOSITE INSULATOR FOR T & D            | INSULATOR TRANSMISSION & DISTRIBUTION; OHL COMPOSITE TYPE, UP TO 230 KV, 15-SDMS-02, 15-TMSS-5   | Electrical             | West Europe |
| 13210 | 6000000774 | TRAY; CABLE, FIBERGLASS                      | TRAY; CABLE TYPE, FIBERGLASS, NEMA FG-1, S-P-104 SEC. 9  | Electrical             | West Europe |
| 13219 | 6000014870 | POLE LINE; POWER TRANSMISSION, 69 KV         | POLE LINE; POWER TRANSMISSION TYPE, ANY LG, TAPERED TUBULAR STEEL SHAPE, GALVANIZED STEEL, SEC 20-TMSS-02, RATED 69 KV AND UP.   | Electrical             | West Europe |
| 13227 | 6000001582 | CONTROLLER; ELECTRONIC; COMPRESSOR           | CONTROLLER; COMPRESSOR INCLUDING SURGE CONTROL TYPE, ANY RANGE, SPECIALIZED CONTROL SYSTEMS  | Instrumentation and IT | West Europe |
| 13233 | 6000002655 | ANALYZER; BOTTOM SEDIMENT AND WATER;         | ANALYZER; BOTTOM SEDIMENT AND WATER TYPE, ANY RANGE, TO BE USED FOR LIQUID SERVICE APPLICATION ONLY NOT IN MULTI-PHASE SERVICE   | Instrumentation and IT | West Europe |
| 13242 | 6000002677 | FLOWMETER; ANNUBAR; PITOT TUBE;              | FLOWMETER; ANNUBAR, PITOT TUBE TYPE  | Instrumentation and IT | West Europe |
| 13249 | 6000002689 | CALIBRATION GAS CYLINDER FOR GAS MONITOR     | CYLINDER; CALIBRATION GAS TYPE, SIZE ANY, ANY, FOR COMBUSTIBLE & TOXIC GAS MONITORS ONLY   | Instrumentation and IT | West Europe |
| 13256 | 6000002742 | FLOWMETER; FOR REDUCE PIPING REQUIREMENTS    | FLOWMETER; 34-SAMSS-010, SPECIALTY FLOWMETER FOR REDUCING PIPING REQUIREMENTS  | Instrumentation and IT | West Europe |
| 13280 | 6000002787 | MONITOR; GAS; COMBUSTIBLE; OPEN PATH TYP     | MONITOR GAS; COMBUSTIBLE, ANY RANGE, 34-SAMSS-514, OPEN PATH TYPE  | Instrumentation and IT | West Europe |
| 13297 | 6000002925 | ANALYZER; NIR SPECTROMETER;                  | ANALYZER; NIR SPECTROMETER TYPE, ANY RANGE,  | Instrumentation and IT | West Europe |
| 13306 | 6000002926 | TRANSMITTER; MULTIVARIABLE;                  | TRANSMITTER; MULTIVARIABLE TYPE, ANY RANGE   | Instrumentation and IT | West Europe |
| 13323 | 6000009881 | Custody Meter, Multi-Path, Ultrasonic Liquid | FLOWMETER; CUSTODY TRANSFER LIQUID TYPE, CUSTODY TRANSFER LIQUID   | Instrumentation and IT | West Europe |
| 13330 | 6000009890 | CUSTODY PROVER, SMALL VOLUME, UNI PISTON     | METER; UND PISTON (SMALL VOLUUM) PROVER TYPE, 34-SAMSS-119, FOR LIQUID CUSTODY TRANSFER  | Instrumentation and IT | West Europe |
| 13338 | 6000009906 | CUSTODY PRESET CONTROLLER, TRUCK LOADING     | COMPUTER FLOW; CUSTODY PRESET CONTROLLER TYPE, 34-SAMSS-847, FOR TRUCK LOADING AND UNLOADING SYSTEMS   | Instrumentation and IT | West Europe |
| 13349 | 6000009910 | CUSTODY WEIGH SCALE                          | SCALE WEIGH; CUSTODY TRANSFER TYPE, 34-SAMSS-180   | Instrumentation and IT | West Europe |
| 13364 | 6000014531 | MPFM FOR GAS FIELD APPLICATION               | FLOWMETER; MULTIPHASE FLOWMETER TYPE, 34-SAMSS-001, FOR GAS, FLOW  | Instrumentation and IT | West Europe |
| 13390 | 6000009831 | CUSTODY METER, TURBINE, LIQUID               | FLOWMETER TURBINE; CUSTODY TRANSFER LIQUID TYPE, ANY, 34-SAMSS-117   | Instrumentation and IT | West Europe |
| 13399 | 6000009832 | CUSTODY METER, POS DISPL., LIQUID            | FLOWMETER POSITIVE DISPLACEMENT; CUSTODY TRANSFER LIQUID TYPE, ANY, 34-SAMSS-118   | Instrumentation and IT | West Europe |
| 13408 | 6000009895 | CUSTODY DENSITY METER, LIQUID                | METER DENSITY; CUSTODY TRANSFER LIQUID TYPE, 34-SAMSS-510  | Instrumentation and IT | West Europe |
| 13418 | 6000009898 | CUSTODY CHROMATOGRAPH, GAS OR LIQUID         | CHROMATOGRAPH PROCESS; FOR CUSTODY TRANSFER CHROMATOGRAPHY, ANY DETECTOR, ANY CARRIER, 34-SAMSS-510  | Instrumentation and IT | West Europe |
| 13429 | 6000009899 | CUSTODY FLOW COMPUTER, LIQUID, PANEL-MNT     | COMPUTER FLOW; PANEL MOUNTED TYPE, 34-SAMSS-841, FOR LIQUID CUSTODY TRANSFER   | Instrumentation and IT | West Europe |
| 13443 | 6000009900 | CUSTODY FLOW COMPUTER, GAS, PANEL-MNTD       | COMPUTER FLOW; PANEL MOUNTED TYPE, 34-SAMSS-846, FOR GAS CUSTODY TRANSFER  | Instrumentation and IT | West Europe |
| 13453 | 1000757581 | H2S SCAVENGER, POWDER                        | H2S SCAVENGER-ZINC-FREE IRON GLUCONATE MIXTURE DRILLING MUD; POWDER FORM, IRON GLUCONATE, FOR SCAVENGES HYDROGEN SULFIDE FROM DRILLING FLUIDS, IRON GLUCONATE, 25 KG (55.1 LBS.) PAIL OR SEALED BAG, VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATERPROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG (CONTAINER) SHALL BE AS FOLLOWS: 1ST PLY 75 LB. MIN. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 75 LB. MIN. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LINER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLYETHYLENE RESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 80 LB. MIN. NATURAL KRAFT PAPER (EXTERIOR PLY). SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL., H2S SCAVENGER-ZINC-FREE IRON GLUCONATE: A HIGHLY WATER SOLUBLE GRANULAR POWDER OF IRON GLUCONATE WITH NO HAZARDOUS SUBSTANCES AND USED TO SCAVENGE HYDROGEN SULFIDE FROM WATER-BASED AND OIL-BASED DRILLING FLUIDS. CHEMICAL AND PHYSICAL SPECIFICATIONS: PURITY (IRON GLUCONATE): >90%WT. APPEARANCE: LIGHT YELLOW-GREEN GRANULAR POWDER PH (1% DI WATER SOLUTION): 4-5.5 SOLUBILITY: 100% SOLUBLE IN WATER ONE LB./BBL. OF PRODUCT REMOVES APPROXIMATELY 150-220 MG/LITER SULFIDES BULK DENSITY: 650-850 KG/M3 @ 68°F (20°C). SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. | Chemicals              | West Europe |
| 13463 | 1000022136 | WATER SOLUBLE CORROSION INHIBITOR            | CORROSION INHIBITOR-MICROBIOSTAT ADDITIVE DRILLING FLUID; LIQUID FORM, CORROSION INHIBITOR AND BIOCID, FOR USED AS A PACKER FLUID CORROSION INHIBITOR, LIQUID AMINE WITH METHANOL MICROBIOSTAT, 55 GAL (208 LITER) DRUM SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL., CORROSION INHIBITOR-MICROBIOSTAT: A COMBINED LIQUID BIOCID AND CORROSION INHIBITOR, CATIONIC, WATER SOLUBLE HETEROCYCLIC AMINE BLENDED WITH METHANOL MICROBIOSTAT TO CONTROL AEROBIC AND ANAEROBIC BACTERIA GROWTH. IT IS USED AS A PACKER FLUID CORROSION INHIBITOR TO CONTROL GENERAL CORROSION ATTACK ON CASING, TUBING AND DOWNHOLE TOOLS IN CONTACT WITH CLEAR AND VISCOSIFIED COMPLETION BRINES. CHEMICAL AND PHYSICAL SPECIFICATIONS: LIGHT (OR PALE) COLORED LIQUID WATER SOLUBLE SPECIFIC GRAVITY @ 68°F (20°C): 0.98 -1.07. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT.   | Chemicals              | West Europe |

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|-------|------------|---------------------------------------|--|-----------|-------------|
| 13473 | 1000022533 | CALCIUM CHLORIDE (77-78%) 2200 lb/BAG | CALCIUM CHLORIDE (77-78%) 1000 KG/BIG BAG ADDITIVE DRILLING FLUID; DRY FLAKES, PELLETS, OR GRANULAR FORM, DRY FLAKES, PELLETS, OR GRANULAR, WATER-SOLUBLE, USED AS WEIGHTING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE QUALITY IS MONITORED BY EXPEC ARC LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS. FOR USED AS WEIGHTING AGENT TO FORMULATE SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS. IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE 77-78%, 1000 KG (2204 LBS) MULTI-WALL MOISTURE-PROOF POLYETHYLENE LINED BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP, BAG IS DISPOSABLE, TOP CLOSURE WATERTIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING AND OUTSIDE STORAGE. THE DISPOSABLE SUPER SACKS SHOULD HAVE AT LEAST 75% OF THEIR SHELF LIFE REMAINING (THE PERIOD FROM DATE OF MANUFACTURING TO THE WARRANTED EXPIRATION DATE) WHEN SHIPPED OR RECEIVED AT DESIGNATED PLACE OF DELIVERY TO SAUDI ARAMCO. REFER TO SAP NUMBER: 1000840600 FOR # DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGH THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TICKET PRINT DATA STATING: DATE AND TIME, COMPANY AND ADDRESS, TRUCK IDENTITY NUMBER, MATERIAL NAME, TRUCK WEIGHT BEFORE AND AFTER LOADING. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, ASTM D98-68/PRACTICE E29 / ASTM D345 - 02(2010) STANDARD TEST METHOD FOR CACL2 SAMPLING AND TESTING, CHEMICAL AND PHYSICAL. SPECIFICATIONS APPEARANCE: DRY FREE FLOWING WHITE FLAKES OR PELLETS - PURITY: CACL2 77% WT. MINIMUM PASS THROUGH 7/16 IN SCREEN: 100% WT. NO PARTICLES GREATER THAN 11MM IN ANY DIMENSION. M ALKALI CHLORIDES AS NA CL: 7% WT. MAXIMUM AND MGCL2: 1% WT. MAXIMUM HEAVY METALS AS PB: 0.005% WT. MAXIMUM - SULFATE AS CASO4: 0.05% WT. MAXIMUM. FE: 15 PPM MAXIMUM WATER INSOLUBLE: 0.20% WT. MAXIMUM.   | Chemicals | West Europe |
| 13482 | 1000022538 | CALCIUM CHLORIDE (94-98%) 2200 lb/BAG | CALCIUM CHLORIDE (94-98%) 1000 KG/BIG BAG ADDITIVE DRILLING FLUID; DRY FLAKES, PELLETS, OR GRANULAR FORM, DRY FLAKES, PELLETS, OR GRANULAR, WATER-SOLUBLE USED AS WEIGHTING AGENT FOR FORMULATING SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE QUALITY IS MONITORED BY EXPEC ARC LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS. FOR USED AS WEIGHTING AGENT FOR FORMULATING SOLIDS-FREE COMPLETION BRINES AND TO PROVIDE THE DESIRED WATER PHASE SALINITY AND ACTIVITY IN INVERT EMULSION MUDS IN ADDITION, IT IS USED AS AN ACCELERATOR IN OIL WELL CEMENT SLURRIES. CALCIUM CHLORIDE 94-98%, 1000 KG (2204 LBS.) MULTI-WALL MOISTURE-PROOF POLYETHYLENE LINED BAGS WITH LIFTING STRAPS, WITHOUT BOTTOM SPOUT. LIFTING STRAP BAG IS DISPOSABLE, TOP CLOSURE WATERTIGHT, STACKABLE. MINIMUM TENSILE STRENGTH FACTOR 5, FLEXURAL STRENGTH FOR NORMAL HANDLING & OUTSIDE STORAGE. THE DISPOSABLE SUPER SACKS SHOULD HAVE AT LEAST 75% OF THEIR SHELF LIFE REMAINING (THE PERIOD FROM DATE OF MANUFACTURING TO THE WARRANTED EXPIRATION DATE) WHEN SHIPPED OR RECEIVED AT DESIGNATED PLACE OF DELIVERY TO SAUDI ARAMCO. REFER TO SAP NUMBER: 1000840600 FOR # DISPOSABLE SUPER SACKS SPECIFICATIONS. SUPPLIERS ARE REQUIRED TO WEIGH THE TRUCKS BEFORE AND AFTER LOADING AND SUBMIT TO MATERIAL SUPPLY AN OFFICIAL TICKET PRINT DATA STATING: DATE AND TIME, COMPANY AND ADDRESS, TRUCK IDENTITY NUMBER, MATERIAL NAME, TRUCK WEIGHT BEFORE AND AFTER LOADING. SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, ASTM D98-68/PRACTICE E29 / ASTM D345 - 02 (2010) STANDARD TEST METHOD FOR CACL2 SAMPLING AND TESTING, CHEMICAL AND PHYSICAL. SPECIFICATIONS APPEARANCE: DRY FREE FLOWING WHITE FLAKES OR PELLETS - PURITY: CACL2 94 %WT. MINIMUM PASS THROUGH 4 MESH SCREEN: 100% WT. NO PARTICLES GREATER THAN 4.5MM IN ANY DIMENSION ALKALI CHLORIDES AS NA CL: 5.0% WT. MAXIMUM - AS MGCL2: 0.5% WT. MAXIMUM HEAVY METALS AS PB: 0.005% WT. MAXIMUM. SULFATE AS CASO4: 0.05% WT. MAXIMUM. FE: 15 PPM MAXIMUM WATER INSOLUBLE: 0.20% WT. MAXIMUM. REMAINING COMPONENT IS WATER OF CRYSTALLIZATION PH:  | Chemicals | West Europe |
| 13491 | 1001129231 | Anhydrous Calcium Bromide Dry         | CALCIUM BROMIDE [CABR2] DRY 95% ADDITIVE DRILLING FLUID; WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR FORM, CALCIUM BROMIDE (CABR2) DRY 95% FOR WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR WITH NO LUMPS, CALCIUM BROMIDE SALT USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CABR2 SALT SOLUTION WITH MINIMUM DENSITY OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUT. CALCIUM BROMIDE (CABR2) DRY 95%, 25 KG (55.1 LB) BAG (NET WEIGHT), WHITE FREE FLOWING POWDER, CRYSTALLINE OR GRANULAR WITH NO LUMPS. CALCIUM BROMIDE SALT USED FOR PREPARING COMPLETION FLUIDS AS A SINGLE CABR2 SALT SOLUTION WITH MINIMUM DENSITY OF 1.70 GM/CC, AND CAN BE BLENDED WITH ZINC BROMIDE AND CALCIUM CHLORIDE SOLUTIONS TO FORMULATE. SOLIDS-FREE NON-DAMAGING HIGH-DENSITY BRINE BLENDS WITH DENSITIES UP TO 143 PCF (19.1 LB/GAL). APPEARANCE: WHITE FREE FLOWING POWDER CRYSTALLINE OR GRANULAR, NO LUMPS SATURATED BRINE SOLUTION: CLEAR COLORLESS PURITY AS CABR2, PERCENT 95 MINIMUM SG AT 77 DEG F (25 DEG C): 3.2 - 3.4 SOLUBILITY IN WATER AT 68 DEG F (20 DEG C), WT PERCENT 58 MINIMUM IRON, PPM: 10 MAXIMUM CHLORIDE AS CA CL2, WT PERCENT 1.5 MAXIMUM SULFATE, PPM: 200 MAXIMUM HEAVY METALS, PPM: PB: 5 MAXIMUM HG: 1 MAXIMUM AS: 5 MAXIMUM CD: 5 MAXIMUM SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET MSDS.  | Chemicals | West Europe |
| 13499 | 1001130337 | Radiagreen EME Salt                   | EXTREME LUBRICANT FOR UNDERBALANCE COILED TUBING DRILLING ADDITIVE DRILLING FLUID; YELLOW TO DARK AMBER LIQUID FORM, BLEND OF FATTY AMIDES ACID AND ESTERS, OR POLYOL ESTER OF FATTY ACIDS. FOR COMBUSTIBLE AMBER LIQUID BLEND OF POLYMERIZED FATTY AMIDE, ACID AND ESTER, OR POLYOL ESTER OF FATTY ACID USED IN SOLIDS-FREE DRILL-IN FLUIDS OR MONOVALENT BRINES TO REDUCE TORQUE AND DRAG IN HIGHLY TORTUOUS OR EXTENDED REACH WELLS, INCLUDING COILED TUBING, BLEND OF FATTY AMIDES ACID AND ESTERS, OR POLYOL ESTER OF FATTY ACIDS. 55 GAL (208 LITER) DRUM (NET VOLUME). APPEARANCE: YELLOW TO DARK AMBER. SWEET AND MILD ODOR SOLUBILITY IN WATER: INSOLUBLE IN WATER SPECIFIC GRAVITY AT THE RANGE BETWEEN 68F (20C): 0.95 - 1.05 FLASH POINT (PMCC): GREATER THAN 212F (100C) IT WILL NOT GREASE OR PHASE OUT. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET MSDS. IT IS NON-DAMAGING TO PRODUCING ZONES, NON-TOXIC, ENVIRONMENTALLY FRIENDLY AND HELPS PREVENT BIT BALLING AND DIFFERENTIAL STICKING. THE PRODUCT IS COMPATIBLE WITH SEAWATER AND MONOVALENT BRINE-BASED DRILLING FLUIDS. OTHER ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSELY AFFECT FLUID PROPERTIES.   | Chemicals | West Europe |
| 13507 | 1000823699 | THINNER OBM                           | THINNER/DISPERSANT OBM CONDITIONER ADDITIVE DRILLING FLUID; LIQUID FORM, SULFONATE BLEND WITH FATTY ACID, FOR USED TO LOWER RHEOLOGICAL PROPERTIES OF OIL BASE FLUIDS. POLYOLEFIN/ORGANIC SULFONATE BLEND WITH FATTY ACID. 55 GALLON (208 LITER) DRUM. SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. THINNER/DISPERSANT OIL-BASE MUD CONDITIONER: LIQUID POLYOLEFIN/ORGANIC SULFONATE BLEND WITH FATTY ACID DERIVATIVES USED TO LOWER RHEOLOGICAL PROPERTIES FOR OIL BASE FLUIDS. OTHER ASSOCIATED ELEMENTS MUST NOT BE HARMFUL TO PERSONNEL AND/OR ADVERSELY AFFECT FLUID PROPERTIES. CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: DARK AMBER LIQUID SOLUBILITY: INSOLUBLE IN WATER SPECIFIC GRAVITY: 0.90 - 0.96 FLASH POINT (PMCC): > 212°F (100°C) SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS FOR EVERY BATCH (COA) AND CERTIFICATE OF ORIGIN (COO). LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, EXPIRATION DATE, SAP NUMBER AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT  | Chemicals | West Europe |
| 13516 | 1000021672 | HYDROXY ETHYL CELLULOSE (HEC)         | HYDROXY ETHYL CELLULOSE (HEC) ADDITIVE DRILLING FLUID; DRY FREE FLOWING WHITE POWDER FORM, HYDROXY ETHYL CELLULOSE (HEC) FOR MULTI-PURPOSE VISCOSIFYING POLYMER FOR FRESHWATER, SEA WATER SALT SATURATED WATER AND COMPLEX BRINE SYSTEMS, HYDROXY ETHYL CELLULOSE (HEC), 50 LBS. (22.7 KG). MULTI-WALLED PAPER BAG, VALVE/SPOUT TYPE, COMPLETELY SEALED, MOISTURE AND WATER PROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY (INTERIOR PLY) 10H COATING 0.00285 MICRON ALUMINUM SHEET 6H PE COATING 50 LB NATURAL KRAFT PAPER THE ALUMINUM SHEET IS COATED ON ONE SIDE WITH 10H PE THE 10H IS NEXT TO THE PRODUCT. THE COATED ALUMINUM SHEET LAMINATED TO THE 50 LB KRAFT PAPER. 2ND PLY 50 LB NATURAL KRAFT PAPER. 3RD PLY 50 LB NATURAL KRAFT PAPER. 4TH PLY 50 LB BLEACH WHITE NATURAL KRAFT PAPER (EXTERIOR PLY). THE BLEACHED PAPER IS "FULLY BLEACHED WHITE". SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL. HEC-HYDROXY ETHYL CELLULOSE: IS A NON-IONIC POLYMER, DRY FREE FLOWING WHITE POWDER DISPERSES EASILY AND RAPIDLY DISSOLVES IN FRESH WATER, SEA WATER, SALT SATURATED BRINE AND COMPLEX DIVALENT BRINE BLENDS TO DEVELOP VISCOSITY RELATED CHARACTERISTICS FOR DRILLING AND COMPLETION FLUIDS THAT IMPART MINIMUM FORMATION DAMAGE. THE HEC SHOULD BE EASILY BROKEN WITH ACID, ENZYMES, OR OXIDIZING AGENTS TO MAXIMIZE THE POTENTIAL FOR HYDROCARBON RECOVERY AND SHOULD BE STABLE AT TEMPERATURES UP TO 250°F (121°C). CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: WHITE TO CREAM-COLORED HYDROXYETHYLCELLULOSE (HEC) SHALL NOT CONTAIN ANY STARCH, GUAR OR ANY OTHER POLYMERS OR THEIR DERIVATIVES. MOISTURE: 8% WT. MAXIMUM SPECIFIC GRAVITY, 1.38-1.40 PARTICLE SIZE: PASS THROUGH U.S. 20 MESH SCREEN (840 MICRON): 100% 1% WT. SOLUTION IN DEIONIZED WATER BROOKFIELD SPINDLE #4, 30 RPM. (ASTM D 2196-91): VISCOSITY AT 77°F (25°C): 4,400-6,500 PH @ 77°F (25°C): 6-7 SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT NAME, BATCH NUMBER, PRODUCTION DATE, SAP NUMBER, EXPIRATION DATE, AND COUNTRY OF ORIGIN, MANUFACTURER NAME AND CONTACT INFORMATION. HAZCOM ACCORDING TO THE MATERIAL SAFETY DATA SHEET (MSDS). UOM REFERRED IN THIS MATERIAL IS NET VOLUME/WEIGHT. | Chemicals | West Europe |

|       |            |  |   |                        |             |
|-------|------------|--|---|------------------------|-------------|
| 13531 | 1000814796 | ACETIC ACID > 96%                                      | MICRO WASH-GLACIAL ACID-BAKER HUGHES ADDITIVE DRILLING FLUID; CLEAR, COLORLESS LIQUID FORM, LIQUID CARBOXYLIC ACID, FOR USE FOR ACIDIZING SOLUBLE CALCIUM CARBONATE PARTICLES AFTER USING OBM, LIQUID CARBOXYLIC ACID WITH THE MOLECULAR FORMULA OF CH3COOH, 275 GALLON IBC TOTE CONTAINER SPECIFICATIONS: LEAK PREVENTION MECHANISM: VALVE CLOSED WITH SCREW CAP PE-DISC AND FLAT GASKET, VALVE HANDLE SECURED WITH A LOCKING SCREW. INNER CONTAINER SHOULD BE HIGH MOLECULAR WEIGHT, HIGH DENSITY POLYETHYLENE (HMWHDPE) W/EXTRUSION BLOW MOLDED, SPECIALLY SHAPED TO ENSURE COMPLETE DISCHARGE OF CONTENTS. OUTER CONTAINER SHOULD BE RIGID, WELDED GALVANIZED TUBULAR STEEL GRID WITH A LARGE PERMANENTLY FIXED IDENTIFICATION PLATE. MOLDED BOTTOM SHELL SHOULD BE PRESSED GALVANIZED STEEL BASE SHAPED TO SUPPORT THE INNER CONTAINER AND ASSIST TOTAL DRAINAGE. PALLETS SHOULD BE STEEL AND HAVE 4 WAYS ENTRIES. SHIPMENT OF PRODUCTS MUST CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, MICRO-WASH ACETIC ACID-BAKER HUGHES: CLEAR LIQUID CARBOXYLIC ACIDS WITH THE FORMULA OF CH3COOH, USED FOR ACIDIZING SOLUBLE CALCIUM CARBONATE PARTICLES, AFTER USING OBM, IN WELLBORE REMEDIATION AND CLEANUP PROCESS TO IMPROVE WELL PRODUCTIVITY. BAKER HUGHES MICRO-WASH ACID SYSTEM CONSISTS OF: PRIME-743 (SAP #1000811425), PRIME-760 (SAP #1000811426), PRIME-770 (SAP #1000811427), OHR-759 (SAP #1000811421), OHR-AC (SAP #1000811422), OHR-757 (SAP #1000811423), OHR-750 (SAP #1000811424), GLACIAL ACETIC ACID (SAP #1000814796), AND FORMIC ACID (SAP #1000811877). CHEMICAL AND PHYSICAL SPECIFICATIONS: APPEARANCE: CLEAR LIQUID, STRONG PUNGENT VINEGAR ODOR ACETIC ACID: >96% DENSITY: 1040-1050 KG/M <sup>3</sup> (1.040-1.050 G/CM <sup>3</sup> ) AT 25°C BOILING POINT: 242.6 °F (117 °C) MINIMUM FLASH POINT: >39 °C/102 °F (CLOSED CUP) AUTO-IGNITION TEMPERATURE: 799°C. SAUDI ARAMCO RESERVES THE RIGHT TO COLLECT REPRESENTATIVE PRODUCT SAMPLES AND CONDUCT LABORATORY TESTS TO ENSURE COMPLIANCE WITH THE MATERIAL DESCRIPTION AND SPECIFICATIONS. PRODUCT MANUFACTURER AND/OR SUPPLIER ARE REQUIRED TO SUBMIT LAB CERTIFICATE OF ANALYSIS (COA) AND CERTIFICATE OF ORIGIN (COO) FOR EVERY BATCH. LABEL: PRODUCT   | Chemicals              | West Europe |
| 13539 | 1000021930 | XANTHAN GUM (POWDER)                                   | XANTHAN GUM BIO-POLYMER ADDITIVE DRILLING FLUID; DRY FREE FLOWING POWDER FORM, PURE XANTHAN GUM BIO-POLYMER, FOR IS USED AS A RHEOLOGY CONTROL AND SUSPENSION AGENT IN FRESH WATER, SEA WATER, AND SATURATED BRINE-BASED DRILLING, COMPLETION AND WORKOVER FLUIDS, PURE XANTHAN GUM BIO-POLYMER, 25 KG (55.1 LBS.) MULTI-WALL PAPER BAG, VALVE/SPOUT TYPE COMPLETELY SEALED, MOISTURE AND WATER PROOF. THE CONSTRUCTION OF THE MULTI-WALLED PAPER BAG SHALL BE AS FOLLOWS: 1ST PLY 50 LB. NATURAL KRAFT PAPER (INTERIOR PLY) 2ND PLY 50 LB. NATURAL KRAFT PAPER 3RD PLY SEPARATE INNER BAG LINER, HIGH DENSITY ORIENTED AND CROSS-LAMINATED INNER POLY-ETHYLENE RESIN LINER (TUBULAR SHAPE) WITH A MINIMUM WALL THICKNESS OF 0.1 MM. 4TH PLY 50 LB. NATURAL KRAFT PAPER. 5TH PLY 60 LB. NATURAL KRAFT PAPER. WET STRENGTH (EXTERIOR PLY) SHIPMENT OF PRODUCT SHALL CONFORM TO SAUDI ARAMCO EXPORT PACKING MANUAL, API SPECIFICATION 13A 18TH EDITION, AUGUST 2010, ERRATA 1, AUGUST 2014. XANTHAN GUM BIO-POLYMER: DRILLING GRADE PURE, DRY, FREEFLOWING FINE POWDER ANIONIC POLYSACCHARIDE, READILY SOLUBLE IN WATER BRINE. THE BIO-POLYMER PRODUCED BY A DISTINCT FERMENTATION PROCESS OF XANTHOMONAS CAMPESTRIS. THE PRODUCT SHALL NOT CONTAIN ANY OTHER POLYSACCHARIDE, SUCH AS STARCH, GUAR GUM OR OTHER NATURALLY OCCURRING POLYMERS OR THEIR DERIVATIVES. IT IS USED AS A RHEOLOGY CONTROL AND SUSPENSION AGENT IN FRESH WATER, SEA WATER, AND SATURATED BRINE-BASED DRILLING, COMPLETION AND WORKOVER FLUIDS. XANTHAN GUM QUALITY IS MONITORED EXPECT LABORATORIES. EXPEC CERTIFICATE OF ACCEPTANCE (EXPEC/COA) REFERRING TO THE RESPECTIVE BATCH NUMBER MUST BE ATTACHED TO EACH SHIPMENT DOCUMENTS ACCEPTED FOR FIELD APPLICATIONS. CHEMICAL AND PHYSICAL SPECIFICATIONS: OFF-WHITE, FREE-FLOWING GRANULAR POWDER. SCREEN ANALYSIS: LESS THAN 425 MM (PASS THROUGH 40 US MESH SCREEN) - 95% MINIMUM LESS THAN 75 MM (PASS THROUGH 200 US MESH SCREEN) - 50% MAXIMUM QUALITATIVE LAB TESTS WILL BE PERFORMED TO DETECT THE PRESENCE OF: STARCH, GUAR, OR THEIR DERIVATIVES; ABSENT CELLULOSE ENZYMES: NEGATIVE SULFATE REDUCING BACTERIA: NEGATIVE CELLULOLYTIC BACTERIA: NEGATIVE MOISTURE CONTENT: 10% MAXIMUM NO INGREDIENT LEVELS GREATER THAN OR EQUAL TO 0.1% WT. TO BE IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN PERFORMANCE REQUIREMENTS: LOW XANTHAN GUM CONCENTRATION DEVELOPS PSEUDOPLASTIC FLUID BEHAVIOR (HIGH VISCOSITY UNDER LOW SHEAR AND LOW VISCOSITY UNDER HIGH SHEAR) TEMPERATURE STABILITY: STABLE | Chemicals              | West Europe |
| 13558 | 6000007293 | COUPLING; OCTG; HIGH NICKEL                            | COUPLING OCTG; DUPLEX STAINLESS STEEL AND NICKEL BASE ALLOYS, SEAMLESS, API-5CRA, ISO-13680 AND 45-SAMSS-006, GR API-5CRA GROUP-2 TO GROUP-4 GRADES, SIZE ANY, CAL-IV QUALIFIED THREAD END CONN, ANY LG   | Pipe & OCTG            | West Europe |
| 13565 | 6000007303 | CASING; OCTG; HIGH NICKEL; SEAMLESS                    | CASING OCTG; DUPLEX STAINLESS STEEL AND NICKEL BASE ALLOYS, SEAMLESS, API-5CRA, ISO-13680 AND 45-SAMSS-006, GR API-5CRA GROUP-2 TO GROUP-4 GRADES, SIZE 4-1/2 IN AND LARGER SIZES, CAL-IV QUALIFIED T-THREAD END CONN   | Pipe & OCTG            | West Europe |
| 13571 | 6000007305 | CROSSOVER; OCTG; HIGH NICKEL                           | ADAPTER OCTG NIPPLE/CROSSOVER/SWAGE; DUPLEX STAINLESS STEEL AND NICKEL BASE ALLOYS, SEAMLESS, API-5CRA, ISO-13680 AND 45-SAMSS-006, GR API-5CRA GROUP-2 TO GROUP-4 GRADES, CAL-IV QUALIFIED T-THREAD  | Pipe & OCTG            | West Europe |
| 13578 | 6000007307 | PUP JOINT; CASING OCTG; HIGH NICKEL                    | PUP JOINT OCTG; DUPLEX STAINLESS STEEL AND NICKEL BASE ALLOYS, SEAMLESS, API-5CRA, ISO-13680 AND 45-SAMSS-006, GR API-5CRA GROUP-2 TO GROUP-4 GRADES, SIZE 4-1/2 IN AND LARGER SIZES, CAL-IV QUALIFIED T-THREAD END CONN  | Pipe & OCTG            | West Europe |
| 13584 | 6000015250 | Non-Metallic OCTG Products                             | CASING OCTG; THERMOSETTING POLYMERS REINFORCED WITH FIBERGLASS, API 15HR, 45-SAMSS-006 API-5L, SIZE 4-1/2 IN -10-3/4 IN   | Instrumentation and IT | West Europe |
| 13593 | 6000010721 | Expandable Pipe System                                 | UNIT; ANY TYPE, EXPANDABLE CASING & ACCESSORIES   | Drilling Equipment     | West Europe |
| 13594 | 6000010721 | Expandable Pipe System                                 | UNIT; ANY TYPE, EXPANDABLE CASING & ACCESSORIES   | Drilling Equipment     | West Europe |
| 13603 | 6000015784 | Multilateral system                                    | LATERAL; ANY NPS, ANY LATERALS AND ACCESSORIES EQUIPMENT  | Drilling Equipment     | West Europe |
| 13608 | 6000004089 | Open Hole Expandable latch anchor whipstock            | WHIPSTOCK; RETRIEVABLE TYPE ANY CSG DRE DRILLING OPERATIONS   | Drilling Equipment     | West Europe |
| 13613 | 6000004043 | Single ICD Installation                                | CEMENTER; ANY TOOL OD, ANY DRILL OD, MULTI STAGE INFLATABLE AND MECHANICAL PACKER FOR CEMENTING (DV)  | Drilling Equipment     | West Europe |
| 13618 | 6000004047 | Isolation packer expandable                            | PACKER; ANY TYPE, MECHANICAL, SWELLABLE, ISOLATION PACKERS  | Chemicals              | West Europe |
| 13627 | 6000002244 | COMPRESSOR; AIR; CENTRIFUGAL; INTEGRALLY               | COMPRESSOR AIR; CENTRIFUGAL, INTEGRALLY GEARED TYPE, 31-SAMSS-006   | Rotating Equipment     | West Europe |
| 13638 | 6000002417 | FILTER; ELEMENT; COMBUSTION GAS TURBINE;               | FILTER ELEMENT; FOR COMBUSTION GAS TURBINE, 32-SAMSS-008, AIR INLET, FINAL STAGE  | Rotating Equipment     | West Europe |
| 13647 | 6000002367 | PUMP; CENTRIFUGAL; CANNED MOTOR;                       | PUMP CENTRIFUGAL; CANNED MOTOR TYPE, SIZE ANY, ANY, SINGLE STAGE(S), ASME B73.3M / ISO15783   | Rotating Equipment     | West Europe |
| 13653 | 6000016780 | EJECTOR; PROCESS GAS                                   | EJECTOR; GAS OR LIQUID, ANY PROCESS, ANY NACE MR-0175/ISO-15156, EJECTOR PACKAGE FOR PROCESS GAS COMPRESSION. NOT FOR STEAM-VACUUM SERVICES.  | Rotating Equipment     | West Europe |
| 13659 | 6000002371 | PUMP; CENTRIFUGAL; VERTICAL; MOLTEN SULFUR             | PUMP CENTRIFUGAL; VERTICAL TYPE, SIZE ANY, ANY, SINGLE STAGE(S), MFR STD DESIGN +SAES-G-005, MOLTEN SULFUR, SLUMP   | Rotating Equipment     | West Europe |
| 13673 | 6000010363 | PUMP; MULTIPHASE, HELICO-AXIAL TYPE, ANY, 31-SAMSS-004 | PUMP; MULTIPHASE, HELICO-AXIAL TYPE, ANY, 31-SAMSS-004  | Rotating Equipment     | West Europe |
| 13680 | 6000017940 | PUMP SUBMERSIBLE, CRYOGENIC PER API 610                | PUMP SUBMERSIBLE; ANY, CRYOGENIC PER API 610, COMPLETE UNIT, PUMP ALONE OR MOTOR ALONE, INCLUDING ACCESSORIES   | Rotating Equipment     | West Europe |
| 13689 | 6000012484 | MICROTURBINES; GAS TURBINE GENERATORS, U               | TURBINE COMBUSTION GAS; GAS TURBINE GENERATORS TYPE, UP TO 500 KW, 32-SAMSS-100, S-K-502, MICROTURBINES   | Rotating Equipment     | West Europe |
| 13715 | 6000000275 | VALVE; CHECK; SWING; UP TO 12 IN; CI OR DI             | VALVE CHECK; SIZE UP TO 12 INCH, CAST OR DUCTILE IRON BODY, SWING, FLANGED, LUG OR WAFER END CONN, 04-SAMSS-035, 04-SAMSS-048 04-SAMSS-005  | Static Equipment       | West Europe |
| 13722 | 6000000296 | VALVE; GATE; WEDGE OR DBL DISC; UP TO 12               | VALVE GATE; SIZE UP TO NPS 12, ANY RATING, ALLEND'S SUPPLY, CAST OR DUCTILE IRON BODY, 04-SAMSS-035, 04-SAMSS-048 AWWA, WITH OR WITHOUT ACTUATOR  | Static Equipment       | West Europe |
| 13728 | 6000000297 | VALVE GATE; SIZE NPS 14 AND ABOVE                      | VALVE GATE; SIZE NPS 14 AND ABOVE, ANY RATING, ALLEND'S SUPPLY, CAST OR DUCTILE IRON BODY, 04-SAMSS-035, AWWA, WITH OR WITHOUT ACTUATOR   | Static Equipment       | West Europe |
| 13736 | 6000000302 | VALVE; GLOBE; CAST OR DUCTILE IRON;                    | VALVE GLOBE; ANY NPS, ANY RATING SUPPLY, ANY ENDS END CONN, CAST OR DUCTILE IRON BODY, 04-SAMSS-035, 04-SAMSS-048 04-SAMSS-002, WITH OR WITHOUT ACTUATOR, ANY SIZE  | Static Equipment       | West Europe |
| 13743 | 6000000317 | VALVE; PLUG; 4-WAY DIVERTER; 2 THRU 24                 | VALVE PLUG; 4-WAY DIVERTER TYPE, SIZE NPS 2 THRU 24, ASME CLASS 150 THRU 600 SUPPLY, FLANGED OR BUTTWELD END CONN, STEEL BODY, 04-SAMSS-042, 04-SAMSS-035 04-SAMSS-048, WITH OR WITHOUT ACTUATOR  | Static Equipment       | West Europe |
| 13757 | 6000000490 | LUMBER; PLYWOOD; EXTERIOR OR INTERIOR;                 | LUMBER; INTERIOR WOOD, EXTERIOR TYPE, ANY NPS, IBC 2006, ONSHORE UTILITIES ONLY   | Static Equipment       | West Europe |
| 13765 | 6000002323 | CRANE; JIB; HOISTING; 1/2 TON TO 10 TON;               | CRANE JIB; HOISTING TYPE, 1/2 TON TO 10 TON LIFT, SHOPS OPERATIO, HOISTING  | Static Equipment       | West Europe |
| 13788 | 6000002415 | EJECTOR; AIR; STEAM OR WATER.;                         | EJECTOR; ANY PROCESS, ANY AIR, STEAM OR WATER, AIR, STEAM OR WATER.   | Static Equipment       | West Europe |
| 13803 | 6000002508 | FLARE; PROCESSED PLANT; INCLUDING TEMPER               | FLARE; PROCESSED PLANT TYPE, 32-SAMSS-022, 31-SAMSS-003 32-SAMSS-004, 32-SAMSS-011 32-SAMSS-013, 34-SAMSS-830 34-SAMSS-711, INCLUDING TEMPERATURE CONTROLS, IGNITERS AND STACK AND BURNPIT WITH ACCESSORIES, FOR FGRS INCLUDES: COMPRESSORS, PRESSURE VESSELS (WATER SEAL DRUMS) OR CONTROL VALVES WITH BUCKING PIN VALVES, BLOWERS AND AIR COOLED HEAT EXCHANGERS. FOR IN-HOUSE HPAAS (HIGH PRESSURE AIR ASSIST SYSTEM) FLARE SMOKELESS APPLICATION INCLUDE: HPAAS FLARE TIP, COMPRESSORS, PRESSURE VESSEL (AIR DRYER AND RECEIVER DRUM), CONTROL VALVES AND HEAT EXCHANGERS.  | Static Equipment       | West Europe |
| 13811 | 6000002748 | IGNITER  | IGNITER; FLARE TYPE, FLARE  | Static Equipment       | West Europe |
| 13815 | 6000009264 | JOINT, METAL TO METAL SEAL                             | COUPLING PIPE; METAL TO METAL (POSITIVE OR NEGATIVE) SEAL MECHANICAL TERMINAL, IN NPS, OY STEEL, MM (IN), PSI SUPPLY, M, GED MLESS LIGHT, E, URAL FINISH, ASME, ASME, (IN) (IN), ITIVE OR NEGATIVE ITIVE OR NEGATIVE JOINT; METAL TO METAL SEAL MECHANICAL TYPE, CS/SS/ALLOY STEEL, (IN) (IN), ITIVE OR NEGATIVE ITIVE OR NEGATIVE  | Static Equipment       | West Europe |
| 13823 | 6000009414 | VALVE; SANDWICH, 2 IN. AND UP, ASME CLAS               | VALVE; GATE, SANDWICH TYPE, SIZE NPS 2 AND UP, STEEL, ASME CLASS 150 AND UP SUPPLY, FLANGE END CONN, 04-SAMSS-035, 04-SAMSS-048   | Static Equipment       | West Europe |
| 13835 | 6000014491 | VALVE; NPS 2 TO 20, COMPOSITE MATERIAL                 | VALVE; BUTTERFLY, BALL OR CHECK TYPE, SIZE NPS 2 THRU 20, ASME CLASS 150 & 300 SUPPLY, FLANGED END CONN, COMPOSITE (NON-METALLIC) BODY  | Static Equipment       | West Europe |
| 13841 | 6000014971 | COUPLER; LPG LOADING, INCLUDE VAPOR                    | COUPLER; LPG LOADING TYPE, SIZE ALL SIZES, HARD PIPE TERMINAL, INCLUDE VAPOR AND BREAKAWAY COUPLERS, CONTACT CSD FOR DETAILS  | Static Equipment       | West Europe |
| 13848 | 6000017141 | INLINE MIXING SKID;                                    | UNIT; VALVE/SPOOL TYPE, SAES-A-0101-SAMSS-010 ANSI B31.3, INLINE HIGH EFFICIENCY MIXER PACKAGE, ADJUSTABLE OR STATIC, TYPICALLY HAS SPOOL OR VAVLE, FITTINGS, INJECTION CONE, INJECTION PIPE SPOOL, INJECTION QUILL, HOUSING, INTERNAL MIXING PARTS. FOR SOUR AND NON SOUR SERVICE NPS PRODUCT RANGE PER PR, ANSI FLANGE 150 TO 900#. FOR MIXING OIL WITH WATER OR CHEMICALS. FABRICATION WITH APPROVED MANUFACTURER  | Static Equipment       | West Europe |
| 13857 | 6000017370 | SEAL, PRIMARY, FOR EXTERNAL FLOATING ROOF              | SEAL; PRIMARY TYPE, 32-SAMSS-005, FOR EXTERNAL FLOATING ROOFS   | Static Equipment       | West Europe |
| 13866 | 6000017570 | BURNER; BOILER, STEAM GENERATOR                        | BURNER; BOILER, STEAM GENERATOR TYPE, SIZE ANY, ANY SHAPE, ANY METAL, 32-SAMSS-021  | Static Equipment       | West Europe |
| 13875 | 6000018060 | VESSEL; PRESSURE, ANY, FIBREGLASS-REINFO               | VESSEL; PRESSURE TYPE, ANY, FIBREGLASS-REINFORCED PLASTIC (FRP), WATER SERVICES ONLY  | Nonmetallic            | West Europe |
| 13884 | 6000017371 | SEAL, SECONDARY, EXTERNAL FLOATING ROOFS               | SEAL; SECONDARY TYPE, 32-SAMSS-005, FOR EXTERNAL FLOATING ROOFS   | Static Equipment       | West Europe |

|       |            |  |   |                        |             |
|-------|------------|--|---|------------------------|-------------|
| 13900 | 6000011206 | SKID; FILTRATION SYSTEM                          | SKID; SKID/PACKAGE TYPE, SAES-A-017 (DESIGN), SAMSS-038 (SKID FABRICATION ASSEMBLY AND DESIGN OF FILTRATION SYSTEM (HYDROCARBON SERVICE) OIL /GAS/WATER STREAM  | Static Equipment       | West Europe |
| 13908 | 6000000342 | VALVE; KNIFE;                                    | VALVE; KNIFE GATE, ALL MATERIALS TYPE, SIZE ALL SIZES, 04-SAMSS-035, 04-SAMSS-048, ALL PRESSURES  | Static Equipment       | West Europe |
| 13917 | 6000000012 | PIPE; STEEL API 5L; SAW STRAIGHT; SOUR           | PIPE METALLIC; ALL SIZE NPS, ANY, STEEL, GR GRADE B THRU X65, SAW STRAIGHT SEAM, BARE, BEVELED ENDS, API 5L, 01-SAMSS-035, SOUR SERVICE   | Static Equipment       | West Europe |
| 13926 | 6000010871 | PIPE METALLIC; SAW STRAIGHT; NON SOUR            | PIPE METALLIC; ALL SIZE NPS, ANY, CS, GR GRADE B THRU X70, STRAIGHT SAW, API 5L, 01-SAMSS-035, NON SOUR SERVICE   | Static Equipment       | West Europe |
| 13953 | 6000015607 | VALVE; BALL; MS, 2-1/16 IN & UP, 2K-5K PSI,      | VALVE; BALL; SIZE 2-1/16 IN AND UP, 2000-5000 PSI SUPPLY, FLANGED, HUBBED OR BUTTWELD END CONN, ANY BODY, STYLE SPLIT BODY OR TOP ENTRY, TRUNNION SUPPORTED SUPPORT, METAL SEATED SEAT, 04-SAMSS-055, API 6A  | Static Equipment       | West Europe |
| 13963 | 6000017500 | UNIT; METALLIC 3DPRINTING/ADDITIVE MANUF         | UNIT; METALLIC 3DPRINTING/ADDITIVE MANUFACTURING INCLUDING ALL TYPE OF STEEL (E.G. INCONEL, TITANIUM, STAINLESS STEEL) TYPE, ANY METALLIC 3D PRINTED PRODUCT INCLUDING NEW PARTS MANUFACTURING, PART MODIFICATION AND REPAIR. METALLIC PART SUCH AS ROTATING EQUIPMENT, STATIC EQUIPMENT AND DRILL EQUIPMENT  | Rotating Equipment     | West Europe |
| 13972 | 6000013000 | Multiplexer; Foundation Fieldbus (FF)            | MULTIPLEXER; FOUNDATION FIELDBUS (FF) TYPE, SAES-J-904, AA MULTI-INPUT TEMPERATURE  | Instrumentation and IT | West Europe |
| 13990 | 6000000999 | FORM-WOUND BRUSHLESS SYNCH. MOTOR                | MOTOR SYNCHRONOUS; 500 HP MINIMUM POWER, 4000 V MINIMUM, 3 PHASE PHASE, HORIZONTAL MTG, 17-SAMSS-520  | Electrical             | West Europe |
| 13999 | 6000018110 | FENCE; RIGID WELDED MESH (RWM), 3 METERS         | FENCE; RIGID WELDED MESH (RWM) TYPE, 3 METERS HEIGHT, 3 TO 3.5 METERS WIDTH HT, STAINLESS STEEL, SAES-O-202   | Others                 | West Europe |
| 14007 | 6000015902 | UNIT; MOBILE SUBSTATION                          | UNIT; MOBILE SUBSTATION TYPE, TMSS-01, 35-TMSS-1 TMSS-10, 46-TMSS-6 TMSS-1, 31-TMSS-2 TMSS-2, 32-TMSS-3 51-TMSS-1, 37-TMSS-1 TMSS-03, 11-SDMS-03 54-TMSS-1, MOBILE SUBSTATION AS PER ATTACHED TECHNICAL SPECIFICATION, BASED ON SEC STANDARDS. #SCOPE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: ENGINEERING, DESIGN, MANUFACTURING, ASSEMBLING, FACTORY TESTING, DELIVERY TO KSA, MINISTRY OF TRANSPORT APPROVAL, DOCUMENTATION, #SPARE PARTS CATALOGUE, SUPPLY OF CRITICAL SPARE PARTS FOR COMMISSIONING, SITE PRE-COMMISSIONING.# | Electrical             | West Europe |
| 13971 | 6000000482 | LUMBER; PRESSURE TREATED                         | LUMBER; ANY NPS, PRESSURE TREATED, 09-SAMSS-002, ONSHORE UTILITIES ONLY   | Static Equipment       | West Europe |
| 13987 | 6000014710 | FLANGE; PIPE; CONNECTOR, MECHANICAL END          | FLANGE PIPE; CONNECTOR TYPE, ANY NPS, ANY, MECHANICAL END CONNECTORS  | Static Equipment       | West Europe |
| 11365 | 6000002393 | BOILER; FIRE TUBE; AND COMONENTS                 | BOILER; FIRE TUBE AND COMPONENTS TYPE, 32-SAMSS-021   | Static Equipment       | West Europe |
| 12692 | 6000016462 | ENGINE; ENGINE, GAS OR DUEL FUEL INDUSTRIAL TYPE | ENGINE; ENGINE, GAS OR DUEL FUEL INDUSTRIAL TYPE, ANY BHP   | Rotating Equipment     | West Europe |
| 12665 | 6000012733 | CHILLER; ABSORPTION; WATER COOLED                | CHILLER; ANY TYPE, ANY SUPPLY, AHRI 560, UL-1995 ASHRAE 90.1, ABSORPTION, SUSTAINABLE, HIGH EFFICIENCY, COMPRESSOR-LESS, WATER COOLED DIRECT FIRED OR EXCESS/WASTE STEAM/HEAT FOR HVAC APPLICATION.   | Static Equipment       | West Europe |
| 14008 | 6000000841 | CIRCUIT BREAKER; AIR; 480 V; LOW VOLTAGE         | CIRCUIT BREAKER AIR; ANY POLE, 480 V, LOW VOLTAGE POWER TYPE, FRAME ANY, 40 DEG C AMBIENT, FOR INDOOR, 16-SAMSS-502   | Electrical             | West Europe |
| 14009 | 6000000841 | CIRCUIT BREAKER; AIR; 480 V; LOW VOLTAGE         | CIRCUIT BREAKER AIR; ANY POLE, 480 V, LOW VOLTAGE POWER TYPE, FRAME ANY, 40 DEG C AMBIENT, FOR INDOOR, 16-SAMSS-502   | Electrical             | East Europe |
| 14012 | 6000016111 | DRAG REDUCING AGENT (DRA)                        | CHEMICAL; ANY, SAEP-501, DRA IT IS A CHEMICAL THAT IS COMPOSED OF LONG CHAINS OF VERY HIGH MOLECULAR WEIGHT POLYMERS SUSPENDED IN A CARRIER FLUID USED IN FLUID-TRANSPORTING-PIPELINE TO REDUCE PIPELINE FRICTIONAL LOSSES/PRESSURE DROP FOR THE PURPOSE OF INCREASING PIPELINE FLOW RATE AND/OR DECREASING PIPELINE OPERATING PRESSURE   | Instrumentation and IT | West Europe |
| 14013 | 6000016111 | DRAG REDUCING AGENT (DRA)                        | CHEMICAL; ANY, SAEP-501, DRA IT IS A CHEMICAL THAT IS COMPOSED OF LONG CHAINS OF VERY HIGH MOLECULAR WEIGHT POLYMERS SUSPENDED IN A CARRIER FLUID USED IN FLUID-TRANSPORTING-PIPELINE TO REDUCE PIPELINE FRICTIONAL LOSSES/PRESSURE DROP FOR THE PURPOSE OF INCREASING PIPELINE FLOW RATE AND/OR DECREASING PIPELINE OPERATING PRESSURE   | Chemicals              | East Europe |
|       | 6000002481 | TANK; FIBER GLASS; 32-SAMSS-002                  | TANK; ANY TYPE, ANY, FIBER GLASS, 32-SAMSS-002  | Nonmetallic            | Either      |
|       | 6000014202 | FITTING; PIPE; CUNI; ALL TYPES; EEMUA 234        | FITTING; PIPE; EEMUA 234, CUNI PIPE FITTINGS, ALL TYPES, INCLUDING ELBOWS, TEES, REDUCERS, CAPS, COUPLING, BRANCH CONNECTION, BW OR SW OR THREADED AS PER EEMUA 234. NON-HYDROCARBON UTILITY.   | Static Equipment       | Either      |
|       | 6000002886 | GAUGE; LEVEL; GLASS;                             | GAUGE LEVEL; GLASS TYPE, 34-SAMSS-010, WITH BACKFLOW PREVENTER VALVE OR CHECK VALVE AS ASSEMBLY IF REQUIRED.  | Instrumentation and IT | Either      |
|       | 6000000328 | VALVE; PLUG; UP TO NPS 12 CAST OR DUCTILE        | VALVE PLUG; SIZE UP TO NPS 12, ANY PRESSURE RATING SUPPLY, ALL ENDS END CONN, CAST IRON BODY, 04-SAMSS-035, 04-SAMSS-048, WITH OR WITHOUT ACTUATOR  | Static Equipment       | Either      |
|       | 6000000686 | BUILDING; SPACE FRAME; STEEL;                    | BUILDING; SPACE FRAME TYPE, SIZE ANY, STEEL, 12-SAMSS-007, SAES-M-001 SAES-M-100, ONSHORE   | Static Equipment       | Either      |
|       | 6000001430 | FLOAT COLLAR; FOR MARINE HOSE                    | BEADS; SIZE ANY, NATURAL OR SYNTHETIC RUBBER SPONGE, POLYVINYL CHLORIDE FOAM, POLYETHYLENE FOAM OTHER SUITABLE MATERIAL, FLOAT COLLAR FOR MARINE HOSES UNIT. 22-SAMSS-004 E FLOATATION  | Static Equipment       | Either      |
|       | 6000002453 | MIXER; SIDE ENTRY; 32-SAMSS-017; GEARED;         | MIXER; SIDE ENTRY TYPE, 32-SAMSS-017, GEARED, ELECTRIC DRIVEN   | Static Equipment       | Either      |
|       | 6000002732 | MONITOR; FLAME MONITORING SYSTEM                 | MONITOR; IGNITERS AND BURNERS USED E MONITORING SYSTEM D IN FIRED EQUIPMENT. TYPE, ANY RANGE, 34-SAMSS-617  | Instrumentation and IT | Either      |
|       | 6000008842 | PUMP, CENTRIFUGAL, HORIZONTAL, MOLTEN SU         | PUMP CENTRIFUGAL; HORIZONTAL TYPE, SIZE ANY, ANY, SINGLE STAGE(S), MFR STD DESIGN +SAES-G-005, MOLTEN SULFHUR   | Rotating Equipment     | Either      |
|       | 6000009909 | Custody Tank Management System, Radar            | COMPUTER; FOR CUSTODY TRANSFER, 34-SAMSS-321, CUSTODY TANK MANAGEMENT SYSTEM, RADAR   | Instrumentation and IT | Either      |
|       | 6000010092 | VALVE; CONTROL, CUSTODY DIGITAL FLOW CON         | VALVE; CONTROL TYPE, SIZE ANY, SAES-Y-103, FOR CUSTODY TRANSFER DIGITAL FLOW CONTROL VALVE  | Instrumentation and IT | Either      |
|       | 6000013342 | FILTER; AIR, WITH BLEED FAN                      | FILTER; SAND, AIR, WITH BLEED FAN TYPE  | Static Equipment       | Either      |
|       | 6000013820 | REACTOR INTERNALS                                | REACTOR; REACTOR INTERNALS TYPE, AXIAL FLOW REACTORS, RADIAL FLOW REACTORS AND REGENERATORS COMPRISING OF DISTRIBUTION AND (RE)-DISTRIBUTION TRAYS, INLET DIFFUSERS, QUENCH MIXING, FILTER DECKS, CATALYST SUPPORT GRIDS, OUTLET COLLECTORS, SUPPORT BEAMS, CENTERPIPE, OUTER GRIDS, SCALLOPS, INNER AND OUTER SCREENS  | Static Equipment       | Either      |
|       | 6000014891 | NEGATIVE PRESSURE WAVE (ACOUSTIC) PLDS           | DETECTOR LEAK; NEGATIVE PRESSURE WAVE (ACOUSTIC) TYPE, FOR PIPELINE, SAES-Z-003, THE ACOUSTIC PRESSURE WAVE METHOD ANALYSES THE RAREFACTION WAVES PRODUCED WHEN A LEAK OCCURS. FOR PIPELINE LEAK DETECTION SYSTEM (PLDS) APPLICATIONS.  | Instrumentation and IT | Either      |
|       | 6000014900 | MACHINE; HOT TAP; PIPELINE SERVICE               | MACHINE; HOT TAP TYPE, WITH/WITHOUT POWER UNIT  | Drilling Equipment     | Either      |



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