



CFR
c h e m i c a l s

**WAX & PARAFFIN SOLVENTS INFORMATION
& SUPPORT SERVICES**

StaSolv™
Wax & Paraffin
Control



Better People. Better Service.





Description	<p>StaSolv 114™ is our premier well optimization and wax solvent, composed only of refined, paraffin-free hydrocarbon products; also containing a field-proven wax dispersant.</p>
<p>Typical Physical Properties</p>	<ul style="list-style-type: none"> • Clear, pale yellow to orange liquid • Freezing point: < -40°C • Odor: Hydrocarbon • Specific gravity: 0.65-0.70 • Flash Point: (°C) -30°C • Solubility: Oil – completely soluble
Applications	<p>StaSolv 114™ can be utilized for the applications, but not limited to:</p> <ul style="list-style-type: none"> • Formation Wax and Asphaltene Deposition Reduction and Remediation • Formation Wax and Asphaltene Deposition Prevention • Workover Fluid • Drilling Damage Removal • Sludge and Emulsion Removal and Prevention • Pipe line Clean Up and Deposition Prevention • Oil and Gas Facilities Deposition Control & Removal • Storage Tank Bottoms Reduction and Removal • Heavy Crude Oil Diluent
Benefits	<ul style="list-style-type: none"> • StaSolv 114™ allows effective wetting of downhole surfaces; dispersant will act as a surface penetrant of paraffinic deposits. • StaSolv 114™ will soften and help remove paraffin deposits with various chain lengths (from C16 to C44+), that collect on both down-hole and surface production equipment. • StaSolv 114™ will not alter natural wettability within downhole formations but will penetrate fouling on formation surface and help remove waxy deposits. • StaSolv 114™ treatment of downhole wax issues will lead to removal of initial wax deposits found, as well as preventing future wax deposits, with a net increase in production. With continued treatment, continuous injection rates can be decreased, to the point where the well is treated with occasional batches of solvent. As well as, to reduce the frequency of knife jobs, saving the producer additional operating funds.
Shipping and Handling	<ul style="list-style-type: none"> • StaSolv 114™ is available in bulk, 1000 L totes, 205L drums or 20 L pails. • Safety Data Sheets are available outlining safe handling practices. • Disposal should be in accordance with all applicable federal, provincial, and local environmental regulations and laws.





Founded in 1996, CFR Chemicals is a privately owned Western Canadian based company. Our primary focus is the distribution of chemicals to the energy and industrial manufacturing industries, while still providing a niche market of specialty oil production chemicals.

With a strong network of suppliers around the world and a highly experienced management team, we serve our clients and customers with pride and an unparalleled level of service. This is the reason CFR will become your first-choice chemical supplier.

WAX & PARAFFIN Treatment Solutions

CFR Chemical's Solvents are specialized products that consist of a complex mixture of aliphatic, naphthenic, monocyclic, dicyclic, and polycyclic aromatic hydrocarbons as well as surfactants in various concentrations. These comprehensive blends are designed to dissolve and disperse wax and asphaltene deposits, break up sludge and emulsions, dilute heavy oils, dilute hot oil crudes, and provide non-damaging fracturing fluids.

Through research and development, CFR Chemicals further enhances their product offerings with the use of specialty value-added chemicals to meet the specific needs of the oil and gas industry in Western Canada.

The StaSolv™ Series can be tailored and designed for specific waxes. However, there are three primary blends to choose from:

StaSolv 114™ - A work-horse product containing wetting and penetrating surfactants. StaSolv 114™ contains 30 % aromatics

StaSolv 214™ - Precise blend of refined solvents; contains wetting surfactants, dispersants, and penetrants. StaSolv 214™ is designed for continuous injection down the annulus. StaSolv 214™ contains 28 % aromatics.

StaSolv SI 114™ - StaSolv 114™ based product that contains an oil soluble scale inhibitor to prevent scale deposition in pump intakes, pumps and tubulars.

UltraSol™

Alternative Condensate Based Solvent Blends

Low cost, value added blends containing a very specific refined condensate and enhanced with short chain aliphatic and aromatic hydrocarbons, as well as wetting surfactants, dispersants, penetrants, and crystal modifiers.

UltraSol 50™ - An economical workover blend of enhanced condensate.

UltraSol 100™ - A very economic blend containing 10% aromatics, a wetting surfactant and a crystal modifier.

UltraSol 200™ - Formerly known as UltraSol WX, this mainstay has long been the workhorse of UltraSol series, containing 20% aromatics.



Technical Support Services

CFR's Laboratory is centrally located in Stony Plain, Alberta. Melting point, GC analysis, viscosity-based analysis, and solvation tests are routinely performed on wax samples and oils to determine the best functioning, most economical solution to eliminate a wax problem. Turnaround times for lab samples are typically one week. CFR will resolve most wax problems; occasionally difficult wax requires a custom solution. With thorough laboratory work and analysis, a custom product can be developed and implemented as the need arises.

Our laboratory staff has over 60 years of experience in the Western Canadian oil field; providing diagnosis and solutions for a multitude of issues.

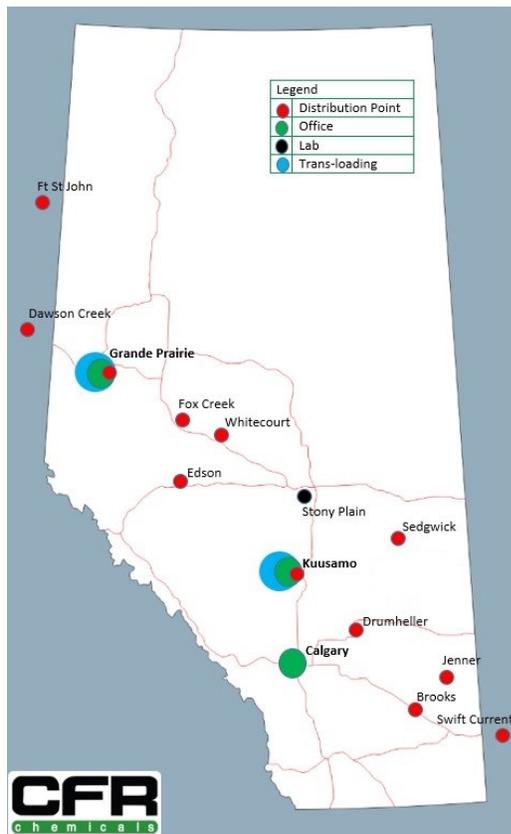




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Health & Safety

CFR is proud to have obtained an Alberta Certificate of Recognition (COR). This represents a significant achievement in our health and safety practices. We strive for continuous improvement, and to be a valued resource on best-practices within our industry. We welcome comments and suggestions from our customers – chat with us today.

We are also proud members of both ISNetworld, and Complyworks. Contact our Health and Safety manager for additional safety information, or our Corporate Development Manager for more information on our involvement with vendor management systems.