



SCI-TECH

ENGINEERED CHEMICALS INC.

INDUSTRIAL SOLUTIONS

Leaders in Green Chemistry

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Leaders in Green Chemistry

Sci-Tech Engineered Chemicals Inc. is a Canadian chemical manufacturer, servicing a variety of markets within Canada and abroad. With a focus on research and development, Sci-Tech has become a leader in environmental cleaning solutions.

A few of our clients



EDMONTON CATHOLIC SCHOOLS



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INDUSTRIAL CLEANING

Degreasing / Water Based

Protocol K-300i

Cleaner / Degreaser

[CONCENTRATE] **CFIA & ECOLOGO APPROVED**

K-300i is a concentrated product and is suitable for removing dirt, oil and grease from a wide variety of surfaces. Since K-300i does not utilize butyls, phosphates or highly caustic chemicals it is safe to use and is safe for the environment. K-300i has proven to be a very effective product for cleaning pipelines and has even been used to prevent soil deposition in drilling mud. From restaurant cleaning to pressure washing drilling rigs, the versatility of K-300i is unmatched.

FOAM



DETERGENCY



SOLVENCY



ODOUR



ENVIRO. PROFILE



Protocol K-301

Cleaner / Degreaser

[CONCENTRATE] **CFIA APPROVED**

K-301 is a highly concentrated product and is very effective on heavily soiled areas. In strength and concentration K-301 is one step above K-300i. Since Protocol K-301 does not utilize butyls, or highly caustic chemicals it is safe to use and is safe for the environment. K-301 is suitable for cleaning equipment, pressure washing floors and general light to medium duty cleaning.

FOAM



DETERGENCY



SOLVENCY



ODOUR



ENVIRO. PROFILE



Liquid

Liquid degreasers are designed to be run through pressure washers or foamers, circulated through systems, or used in spray and wipe applications.

Water Based

Water-based degreasers than can be diluted with water. Formulations are low to high foam. Options include readily biodegradable, Ecologo approved formulas to traditional caustic formulations.

INDUSTRIAL CLEANING
Degreasing / Water Based



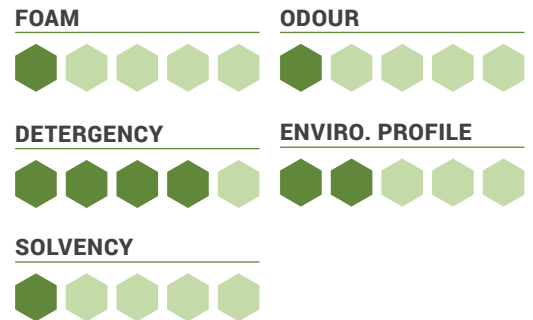
NBC Conc. | Non-Butyl Degreaser [CONCENTRATE] #607 **CFIA APPROVED**

This non-butyl, lemon scented, general purpose cleaner/degreaser can be used for all general cleaning tasks. This product is an economical and easy to use liquid that will quickly clean greasy soils, grime and everyday dirt. It is also an excellent detergent for pressure wash cleaning applications and is ideal for cleaning hood fans and greasy rags.



Big Red | Degreaser [CONCENTRATE] #501 **CFIA APPROVED**

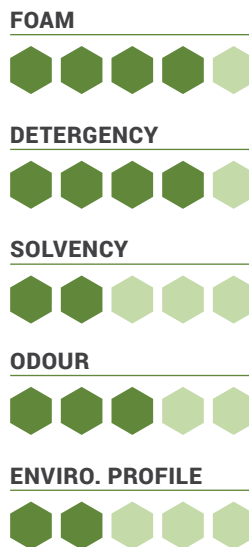
Big Red is a concentrated water based degreaser that is specially designed for fast and effective removal of grease, oil, and dirt. With a unique blend of surfactants and powerful grease-cutting agents, this product quickly penetrates and emulsifies grease and oil from most surfaces. This product may be used in a broad spectrum of applications in various industries, including: garages, factories, industrial shops, and warehouses. For specific use in food plants, see directions.



Fin Fan Cleaner

Foaming Degreaser [CONCENTRATE] #917

This concentrated water soluble detergent is designed for cleaning radiator fins and fans. It integrates a unique combination of powerful surfactants and builders which allow it to quickly penetrate grease and oil. This product is high foaming and, when used through a foam generator, it will produce rich, dense foam. This product is pH buffered and is safe for use on all types of metals, including soft metals such as aluminum.



INDUSTRIAL CLEANING

Degreasing / Vapour Cleaning



VapourClean

Vapour Phase Degreaser [CONCENTRATE] #997

VAPOUR PHASE | H²S SCAVENGER

VapourClean is a water based detergent/scavenger combo that is designed to be used in high temperature vapour cleaning operations. It uses highly biodegradable high temperature stable surfactants and a water soluble hydrogen sulfide scavenger. The scavenger will remove hydrogen sulfide while the detergent component will emulsify other contaminants such as BTEX. VapourClean's ability to efficiently and effectively perform in closed system vapour cleaning is unmatched in the industry. This product has become a mainstay in plant shutdown operations throughout western Canada.

FOAM



DETERGENCY



SOLVENCY



ODOUR



ENVIRO. PROFILE



INDUSTRIAL CLEANING

Degreasing / Solvent Based



Exosolve | Low VOC Solvent [READY TO USE] #980

Exosolve is a high flash point, low VOC product designed to be used in areas where flammability is a concern. It contains synthetic hydrocarbon solvents as well as solvents derived from coconut oil. Exosolve is particularly suitable for high temperature, high pressure cleaning operations where foam generation is undesirable.



Bitusol Alpha

High Flash Point Orange Solvent [READY TO USE] #925

Bitusol Alpha is a high flash point solvent based degreaser. It's designed to be used in enclosed areas where there is a high risk of fire. Based on a blend of synthetic hydrocarbons and citrus oils, it will dissolve tough oil deposits such as bitumen, grease and heavy crude. This product is particularly effective when used in combination with K-300i.



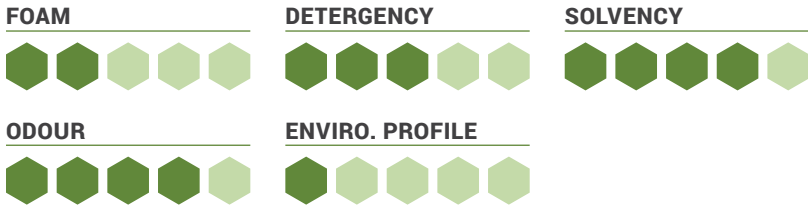
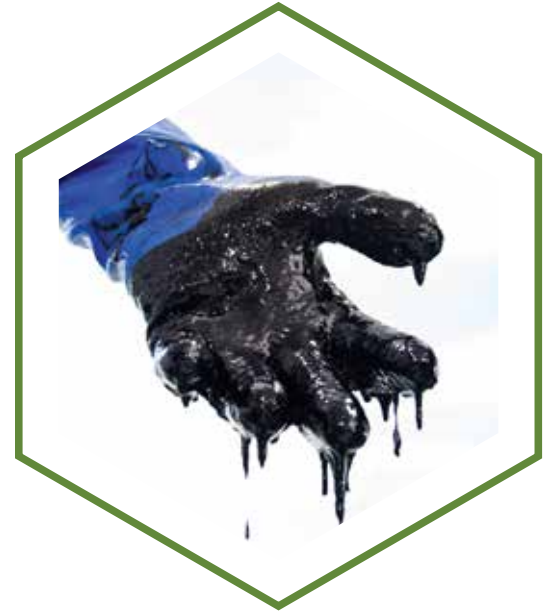
Solvent

Solvent-based solutions that are designed to remove tough tar and grease deposits. These cannot be diluted with water.

INDUSTRIAL CLEANING
 DEGREASING / SOLVENT BASED

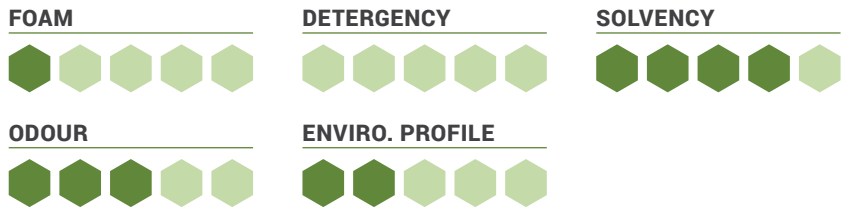
SciSolve HD | Hydrocarbon Solvent [READY TO USE] #514

SciSolve HD is a heavy duty hydrocarbon solvent degreaser for cleaning grease, oil and tar off of shop floors, heavy equipment, and parts. This unique blend of surfactants and hydrocarbon solvents is widely used in the oil industry for the removal of crude oil, bitumen and other soils from pumps, process equipment, gauges and service equipment.



Citrasolve | Orange Solvent [READY TO USE] #505

This heavy duty citrus based solvent degreaser is designed for cleaning shop floors, heavy equipment, and parts. This unique blend of surfactants and terpene solvents is widely used in the oil industry for the removal of crude oil, grease and other soils from pumps and service equipment. Simply spray the surface to be treated and rinse off with high pressure spray.



INDUSTRIAL CLEANING

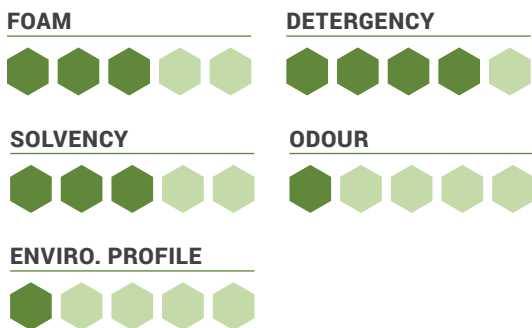
Degreasing / Powder Based



Fire Powder

Heavy Duty Degreaser [CONCENTRATE] #340

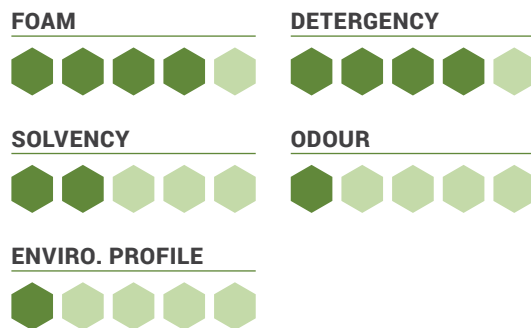
Fire Powder is a high powered, powdered vehicle wash detergent that is designed exclusively for use in heavy industrial applications. When applied and rinsed with a pressure washer, it will cut through the toughest soils without extra agitation (brushing). This product is easy to rinse so you won't waste water during the rinsing stage.



Uniblast

Heavy Duty Degreaser [CONCENTRATE] #316

This alkaline powdered car wash detergent is a unique blend of water conditioning agents and biodegradable surfactants. It is extremely effective at removing dirt, oil, and road film. It works well in either hard or soft water. This product is safe on all painted surfaces and car wash equipment.



Powder

Powdered degreasers are designed to be diluted in water and run through pressure washers or other cleaning systems. They can be used to alleviate storage and shipping costs.



INDUSTRIAL CLEANING

Acid Replacements



OS-100

Hydrochloric Acid Replacement

[CONCENTRATE] [ORGANIC SALT] #S007

This product is a pure solution of organic salts. It can be used for a variety of descaling and rust cleaning operations as a replacement for hydrochloric acid. OS-100 can also be used to replace HCl in acid fracturing operations. OS-100 is readily biodegradable and non-corrosive to skin and mild steel. Suitable for use on rust, calcium and magnesium scales.

CALCIUM



MAGNESIUM



SILICA



IRON



ALUMINUM



ENVIRO. PROFILE



Acid Replacement

Concentrated organic salts designed to be used for circulation cleaning of internal systems such as boilers, TVC units and cooling towers.

INDUSTRIAL CLEANING

Acid Cleaning / Descalers

Protocol K-650

Calcium, Rust, Lime Remover [READY TO USE] [ORGANIC SALT]
ECOLOGO APPROVED

Protocol K-650 is an Ecologo certified calcium, rust and lime remover. Formulated with organic salts, K-650 is safe to use on any surface but must be thoroughly rinsed from all surfaces after use. A built in surfactant allows K-650 to penetrate and lift scale deposits when circulating. K-650 is particularly effective on stone surfaces and any surface that interacts with water on a regular basis.

CALCIUM



MAGNESIUM



SILICA



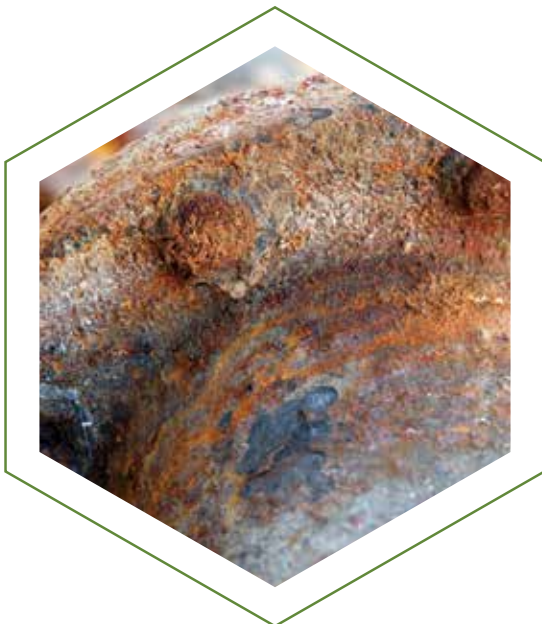
IRON



ALUMINUM



ENVIRO. PROFILE



Protocol K-651

Calcium, Rust, Lime Remover [READY TO USE] [ORGANIC SALT]

K-651 is a low pH cleaner made from an organic salt/surfactant blend that is designed to quickly penetrate dirt, oil, grease, calcium carbonate, lime, and rust. K-651 is safe to use on any surface (must be thoroughly rinsed from all surfaces after use). As a more concentrated version of K-650, K-651 is suited for removing heavy deposits of calcium, rust and lime. A built-in surfactant allows the product to penetrate and lift scale deposits when circulating.

CALCIUM



MAGNESIUM



SILICA



IRON



ALUMINUM



ENVIRO. PROFILE



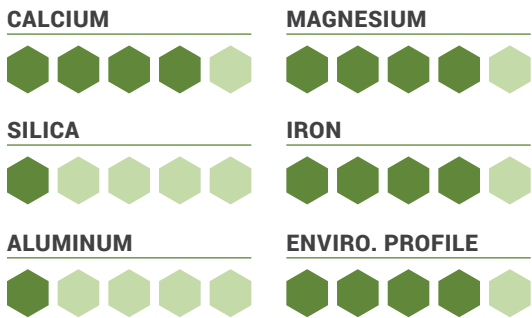
INDUSTRIAL CLEANING
ACID CLEANING DESCALERS



Protocol K-390 | Aluminum Brightener

[CONCENTRATE] [ORGANIC SALT]

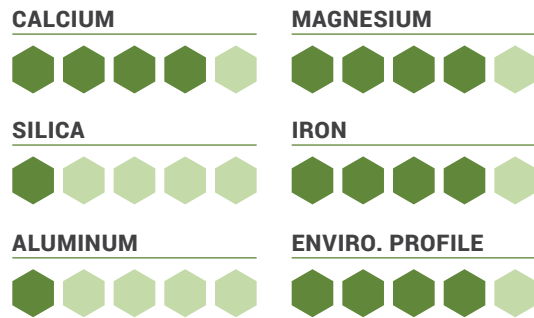
This hydrofluoric acid (HF) free aluminum brightener is designed with cutting edge technology that eliminates the requirement for HF. It uses a low toxicity acid salt specially designed to remove dirt, grime and oxidation from aluminum surfaces leaving them bright and clean. It is safe to use on all surfaces if thoroughly rinsed.



Protocol K-370 | Chrome and Steel Cleaner

[CONCENTRATE] [ORGANIC SALT]

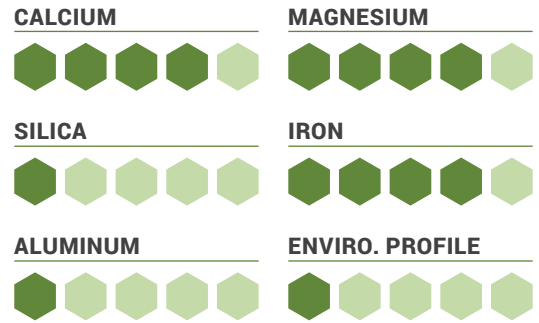
Protocol K-370 is an organic salt based chrome and steel tank cleaner. It is designed to remove rust and calcium deposits from chrome and steel. K-370 can be used alone or as a pre-soak in a two stage wash system. The organic salts used in K-370 act like hydrochloric acid without the safety hazards.



Scale Zero Plus

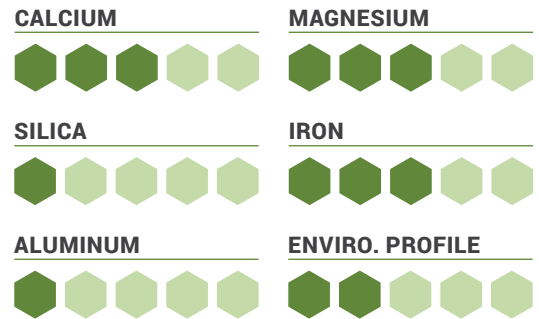
Hydrochloric Acid Descaler [CONCENTRATE] #209

This heavy duty hydrochloric acid based lime, scale, and oxide film remover is designed for the toughest soils at any concentration. It's an economical choice for removal of calcium, magnesium and iron scales in industrial applications. A built-in surfactant allows the acid to penetrate and lift scale deposits when circulating.



Slick | Phosphoric Acid Descaler [CONCENTRATE] #605

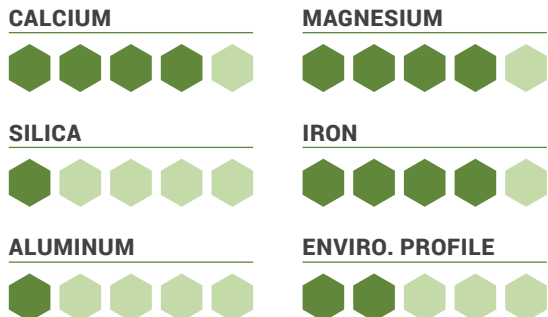
This phosphoric acid descaler is designed to quickly and effectively remove calcium, magnesium, and iron scales. This product is a blend of mild acids that will not attack polished surfaces. Its high viscosity will allow it to cling to surfaces while it reacts with the scale. This is ideal for cleaning vertical surfaces. A built-in surfactant allows the acid to penetrate and lift scale deposits when circulating.



Inhibited HCl

Descaler [CONCENTRATE] #613

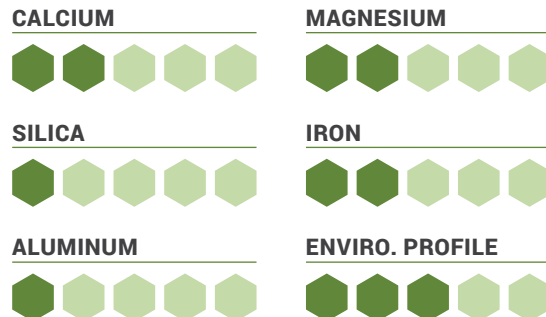
Inhibited hydrochloric acid is the economical industry standard for removal of calcium, magnesium and iron scales. This product is available in a range of concentrations and is inhibited to prevent steel corrosion. Hydrochloric acid is also suitable for formation stimulation, acid fracturing and pH adjustment.



Citric Acid

Descaler [CONCENTRATE] #S012

Citric acid is a mild acid that can be used for many industrial applications such as boiler descaling, stainless steel passivation and base neutralization. This acid, because of its chelating ability, is particularly useful in hard water. Citric acid is available in powdered or liquid form in a variety of concentrations.



OIL FIELD CHEMISTRY

We offer a line of oilfield chemicals that can be formulated to suit a variety of site conditions.

Scavenge

Water Soluble H²S Scavenger #909

This triazine based H₂S scavenger is designed for low temperature removal of H₂S gas. It can be used in a variety of applications including liquid phase and gas phase scavenging. This product reacts with H₂S to form a stable water soluble by-product. Unlike monoethanolamine, triazine based scavengers will not release H₂S when heated.

Flowtek 150

Foamer / Asphaltene Dispersant #915

This all season concentrated blend of dispersants and surfactants is specifically designed to prevent asphaltene build-up in tubular, production and flow line equipment. It also aids in unloading produced water from gas wells depending on composition.

DIF | De-Icing Fluid #919

This special blend of alcohols acts as a de-icing fluid that quickly clears frozen transmission lines. This product also absorbs extraneous water vapour to help prevent subsequent freezing.

Adtek 50 | Asphaltene Dispersant #948

This powerful, concentrated asphaltene dispersant reduces the size of particles while keeping asphaltenes in solution and dispersed to avoid flocculating. It's formulated to allow increased contact between solvents and deposits even in the presence of water. This product will increase production, reduce plugging of wells, reduce need for costly wire line service, and eliminate deposits on screens and tubing.

Action 150 RMX3

Sludge and Silt Dispersant #955

This silt and sludge dispersant is designed to convert dense sludge and silt deposits into light non-adherent agglomerates that permit easy dispersion. Foaming agents aid in the unloading of natural gas wells where water buildup reduces production.

Scale Inhibitor | Scale Inhibitor #940

This highly active phosphate ester acid is a powerful scale and rust inhibitor designed for oil and gas wells. Once introduced into the well, it removes and prevents scale build-up. Benefits include an increase in production, a reduction in plugging of wells, the reduced need for costly wire line service, and the elimination of deposits on screens and tubing. Available in summer and winter formulations.

Paramod CX | Paraffin Modifier #975

Paramod is a formulated paraffin modifier that pulls paraffins into the oil layer eliminating build up. Because Paramod modifies the wax rather than inhibiting it, there is no requirement for disposal of waste paraffin. Paramod CX is available in a variety of concentrations from 1% active to 100% active to suit your needs. Paramod CX can be used in a solvent squeeze process or circulation at normal pressure. 10 000 ppm active is a good starting point for testing. During the solvent squeeze process, the mixture must be kept under 50-100 psig for 48-72 hours. If circulating, the solvent solution should be circulated for 4 days for optimal performance.

CUSTOM BLENDING

Do you require custom blending services?

Sci-Tech Engineered Chemicals provides large scale toll blending and packaging services for water based chemistry. Sci-Tech's expert blending staff and quality control department will ensure that your product is manufactured on time and to spec.

Industrial Packaging

20L Pails • 205L Drums • 1000L Totes
Bulk Tanker Loads

Chemical Storage

- Tanker access with easy in-out
- Storage containers with easy access
- 45 minute loading turn around

Toll Blending

- High capacity blending ability
- Diaphragm air pump - no shear
- Closed system vortex blending
- Load scale batch control system
- Highly experienced plant operators
- Laboratory Q/A testing
- Batch sample storage



SCI-TECH

ENGINEERED CHEMICALS INC.

INDUSTRIAL SOLUTIONS

Areas of Application

- Tank Cleaning
- Bitumen Removal
- Iron Scale Removal
- Calcium & Magnesium Scale Removal
- Pickling/Passivation
- Heavy Duty Laundry
- Heavy Duty Vehicle Wash
- Shop Floor Cleaning
- Corrosion Inhibition
- Scale Inhibition
- Rig Wash
- Invert Mud Cleaning
- Downhole Oilfield Chemistry
- Parts Washing
- Anti-Foam
- Aluminum Brightening
- Toll Blending
- Boiler Cleaning
- Heat Exchanger Cleaning
- Pipeline Cleaning
- Vapour Clean Vessels

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