

Win Chemicals' Green Products

Go green.



Go green and improve product performance at or below your current costs.

We can assist in developing cost effective formulations that meet or outperform your current products or your competitors' products.

Go green and don't spend extra time and money generating data.

We can assist in providing performance studies and Win Chemicals raw material data for achieving Green Seal®, EPA's DfE, USDA's Federal Biobased Products Preferred Procurement Program, European Detergent Directive, Canadian Ecologo approvals and/or supporting environmental claims for a new green product.

Go green and don't get lost in the process.

We believe in developing lasting business relationships with our customers. From formulation design to performance testing, Win Chemicals is there to assist you in going green.

Go green... and go beyond.

At Win Chemicals, we're committed to going beyond today's requirements and are constantly being innovative to meet tomorrow's needs. Whether your goal is to reduce or eliminate VOC's, glycol ethers, solvents, phenol ethoxylates or phosphates, we can help you meet today's green standards... with the added benefit that many of our products are naturally derived.

Go green with Win Chemicals.
Your provider of innovative green solutions.



Win Chemicals offers innovative chemistries for formulating green cleaners and green certified products.

WinSurf® Q-3 /QnG

Q-3 is a versatile, nonionic surfactant system currently used in formulations that have met the requirements for Green Seal, Canadian EcoLogo, EPA's DfE and European Detergent Directive. Eliminates the need for phenol ethoxylates, glycol ethers and other VOC's. Stable in alkaline, acidic and peroxide systems and compatible with anionic, cationic and nonionic surfactants. This flexibility allows for a wide range of formulation and application possibilities. Delivers low dynamic surface tension and provides outstanding wetting, emulsification and rinsing properties. Comprehensive toxicity and biodegradation data available. Win Chemicals recommends QnG, a naturally derived, nonionic surfactant for the USDA's Biobased Program and all other green certification programs listed above.

Applications:

A comprehensive line of green cleaners, including spray 'n wipes, glass and surface cleaners, laundry detergents, laundry pre-sotters, dilutable cleaners and degreasers, floor cleaners, acid cleaners, etc.

- Industrial Laundry Detergents and Pre-Treats
- Industrial Floor Cleaners: Outstanding on black rubber marks
- Transportation Cleaners: Presoaks, Wheel Cleaners
- RV Cleaners: Outstanding on "black streak" marks
- End of Hose Cleaners
- Acid Cleaners
- Peroxide Cleaners
- Industrial Degreasers
- Household/Retail RTU All-Purpose Cleaners

WinSurf® NLS-90

A naturally derived, no/low odor, non-ionic surfactant system providing good soil removal and emulsification of oily soils. NLS-90 is enzyme compatible, alkaline tolerant and has a good foam profile. This allows for great formulation flexibility and can produce formulas that will pass dermal irritation tests.

Applications:

- Laundry Spotters
- Hand Dish Detergent
- High Efficiency/Front Loading Laundry Formulations
- Top Load Laundry Formulations
- Baby Laundry Detergent
- Liquid and Powder Applications
- Retail Floor Cleaners

Windet M-5

(patent pending)

A low pH organic salt that can be formulated to produce acidic products that can be shipped non-regulated by air, ground or sea. M-5 effectively removes insoluble salts and is safe on most metals including polished aluminum. M-5 is colorless, odorless, low foaming and classified as a non-irritant to skin.

Applications:

- Tub 'n Tile Cleaners
- Boat Hull Cleaners
- Food & Dairy Plant Cleaners
- Wheel Cleaners
- Car/Truck Acid Pre-Soak
- Coffee Pot/Ice Machine Descalers
- Dishwasher Descalers
- Decorative Concrete Acid Stains
- Concrete Preparation/Etching

Windet BJS-I

A patented low pH organic salt capable of replacing a wide range of traditional acids. From 50–80% more effective at removing calcium carbonate/limescale than acids such as phosphoric, citric, sulfamic and glycolic. Classified as a mild skin irritant and shipped as a DOT non-regulated material (in the U.S. for ground shipments). Win Chemicals recommends HNA if green certification is required. HNA minimizes potential discoloration of certain metals for use with BJS-I.

Applications:

- Tub 'n Tile Cleaners
- Bowl Cleaners
- Descalers/Delimers
- Concrete Truck Cleaners
- Boat Hull Cleaners
- pH Adjustment
- Food & Dairy Plant Cleaners
- Wheel Cleaners
- 2 Step Acid/Alkaline Car and Truck Detergents
- Concrete Preparation Etching and Cleaners
- Pool and Spa Cleaners
- Decorative Concrete Acid Stains





WinSurf® EGM

A naturally derived surfactant system that eliminates the need for VOC's in glass and glass and surface cleaners. No need for solvents, glycol ethers or ammonia. Streak/smear free, fast evaporation, great detergency and a cost lower than most traditional solvent based glass cleaners. Produce concentrates that can be diluted over 250:1. Safe on glass and plastics. Great demo capability.

Applications:

- Glass
- Glass and Surface Cleaners

WinSurf® NCK

A naturally derived, nonionic emulsifier. A NCK formulated hand cleaner provides enhanced cleaning and rinsing as well as excellent removal of a range of soils and stains. Allows for cold process manufacturing.

Applications:

- Waterless Hand Cleaners

Windet CHD

A naturally derived surfactant for formulating hand cleaners and GS41 hand dish detergents (including sensitive skin formulations). Create a product with excellent foam, stability, cleaning capabilities and environmental profile.

Applications:

- Hand Cleaners
- Hand Dish Detergents

WinSurf® TSR

A unique powdered surfactant system for producing oil and stain removers, bathroom cleaners, kitchen and cook top cleansers. Simply pour a TSR based formulation onto stained concrete, asphalt, wood, stone and various composites, let it dry and then brush or sweep it away.

Applications:

- Oil and Stain Remover for Concrete, Asphalt, Wood Decking, Composite Decking
- Cook Top Cleansers
- Bathroom Abrasive Cleaners
- Countertop Stain Removers

Microbial/ Bacteria Biotechnology

Win Chemicals is the exclusive representative for Osprey Biotechnics who manufactures Bacillus and Pseudomonas bacteria technology. Use as is or combine with one of Win Chemicals' surfactant technologies. Osprey offers packaging capabilities and currently offers a formulated microbial cleaner that has EPA's DfE approval. Contact Win Chemicals about private label possibilities with Osprey.

Applications:

- Grease Trap Cleaning
- Drain Line Maintenance
- Odor Control
- Oil and Petroleum Hydrocarbon Degradation
- Wastewater Treatment
- Reclaim Pits

Meeting a Green Certification Program

Client informs Win Chemicals of the desired certification program, raw material formulation cost parameters and performance criteria to be achieved.



Win Chemicals can assist clients in understanding the process and requirements of the desired certification program.



If required by client, Win Chemicals can assist in complete formulation design to help ensure all ingredients meet certification requirements.



Win Chemicals can assist in conducting necessary end-formulation performance testing (if required by client).

Win Chemicals chemistries for use in green certification programs

GreenSeal

GS37 (for dilutable concentrates)

Glass – EGM

All-Purpose Cleaner – Q3, QnG

Bathroom Cleaner – BJS-I, M5, Q3, HNA, QnG

Carpet – Flexiclean 551G

GS8 (for RTUs)

Household General Purpose Cleaner – Q3, QnG

GS40

Floor Stripper – Q3, QnG

GS41

Hand Cleaner – CHD

EPA's Design for the Environment (DfE)

Q3, BJS-I, EGM, HNA, ES-1, QnG*

Reviewed and approved by the EPA.

CleanGredients Approved Surfactant List

Q3, EGM, ME-80, ES-1, QnG*

Raw materials already reviewed by the EPA reduces the cost and time required for formulation approval.

*QnG currently in review process.

USDA's Federal Biobased Products Preferred Procurement Program

Hand Cleaner and Sanitizers – NCK, QnG

Graffiti and Grease Removers – QnG and Natural ME80

Glass Cleaners – EGM

Canadian EcoLogo

CCD 146A – Window and Glass Cleaner – EGM

CCD 146B – Boat and Bilge Cleaner – M5, BJS-I, Q3, QnG

CCD 146C – Vehicle Cleaner for Household and Institutional Use – Q3, BJS-I, M5, QnG

CCD 146E – Degreasers – Q3, LPB, QnG

CCD 146F – Industrial Cleaners – Q3, BJS-I, M5, QnG

CCD 146G – Appliance Cleaners – Q3, TSR, M5, QnG

CCD 146J – Bathroom Cleaners – BJS-I, EGM, M5

CCD 146K – Dish Cleaners – NLS90

CCD 105 – Laundry Detergent and Fabric Softeners – NLS90



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