

Welcome to

GEMTEK
P r o d u c t s

Oil & Gas – Industry Overview



602-265-8586 • www.gemtek.com



GEMTEK[®]

Products

Headquartered in Phoenix, AZ, **GEMTEK[®]** Products is a manufacturer of non-toxic, environmentally-safe cleaners, degreasers, solvents and specialty chemicals for a broad range of applications in the Oil & Gas industry.





GEMTEK[®]

Products

Established in 1992, **GEMTEK[®]** Products is committed to developing and manufacturing products that are:

- Non-Toxic
- Non-Reactive
- Non-Hazardous
- Non-Carcinogenic
- Readily Biodegradable
- Derived from renewable, biobased ingredients





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GEMTEK[®] products meet or exceed attributes for the following programs:

- USEPA Design for the Environment
- USEPA NCP Surface Washing Agent
- USDA BioPreferred Program
- USDA / NSF Registered
- REACH Pre-registered
- CEFAS Listed for the North Sea





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Manufacturing Capabilities:

- ISO 9001:2008 Certified
- Non-Union Workforce
- Quality Control Labs
- Interstate and Rail Access
- 435 Million Pounds produced annually

Plants located in:

- Macedonia, OH
- Chattanooga, TN
- Dallas, TX
- Hayward, CA
- East Stroudsburg, PA



SAFE CARE®

Cleaners, Solvents & Specialty Products



Core Products for Oil & Gas Applications:

SC-1000 Aqueous Cleaner Concentrate

Non-Ionic Surfactant

SC-1000 Enhanced Degreaser

Non-ionic surfactant, solvent enhanced

SC-SuperSolv Safety Solvent

Non-evaporative, water miscible

SC-EZ-Solv Safety Solvent

Non-evaporative, not water miscible

GP-DiSolv Safety Solvent

Non-evaporative, not water miscible



Safely Cleaning Planet Earth®

SAFE CARE®

Cleaners, Solvents & Specialty Products



SC-1000 Aqueous Cleaner Concentrate

Our most versatile and powerful non-ionic surfactant cleaner used in a variety of industrial applications. Certifications include:

- USEPA National Oil & Hazardous Substances Pollution Contingency Program (NCP)
- USEPA Design for the Environment (DfE)
- USDA BioPreferred Program
- REACH Pre-registered
- CEFAS Listed for North Sea



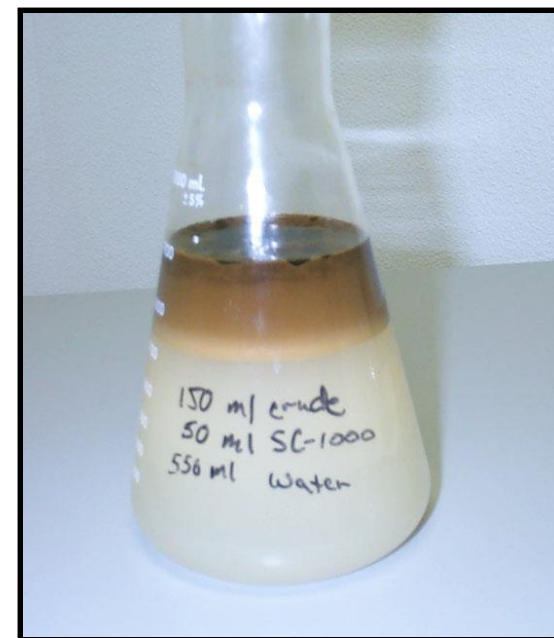
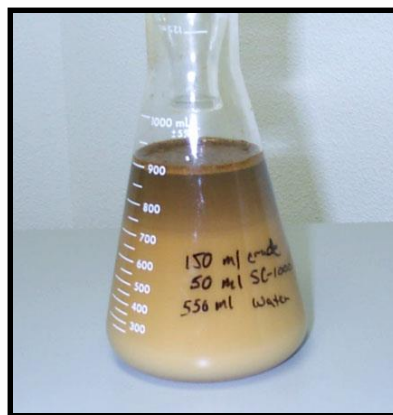
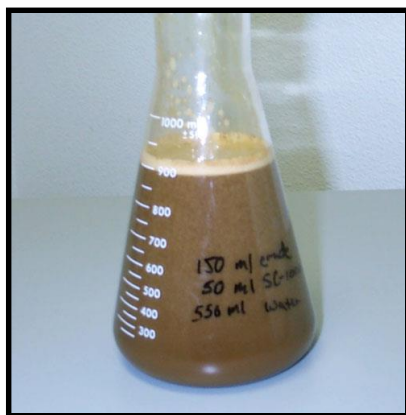
Safely Cleaning Planet Earth®

SAFE CARE®

Cleaners, Solvents & Specialty Products



SC-1000 Aqueous Cleaner Concentrate



SC-1000 can not create a standing emulsion – illustrates the separation of crude oil and water using **SC-1000** Aqueous Cleaner Concentrate.

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Oil & Gas – Application Overview





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Oil & Gas - Industry Applications:

- EOR / Improve Yield
- Soil / Water Remediation
- Cooling Pond Cleaning
- Tank Cleaning
- Oil Spills
- Wellbore Productivity
- Rig / Equipment Maintenance

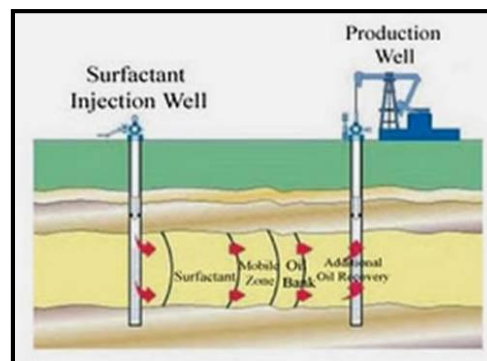




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Oil & Gas - Industry Applications: EOR / Improve Yield



As a readily biodegradable surfactant, **SC-1000** may be used in EOR to improve the recovery of oil without the use of hazardous, toxic chemicals.

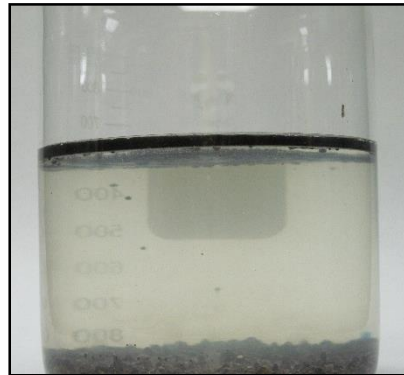


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Oil & Gas - Industry Applications: Soil / Water Remediation

Top view of the beaker at 30 minutes and 2 hours



Demonstrates the immediate release of oil from sandy soil using an 80/20 blend of **SC-1000** non-ionic surfactant and **SC-SuperSolv** non-evaporative solvent at a 5% solution.



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Oil & Gas - Industry Applications: Cooling Pond Cleaning

SAFE CARE[®] Safety Solvents may be used to soften and remove built-up asphaltenes. As a final step, a 10% concentration of **SC-1000** is used with a power-washer. **SAFE CARE[®]** products will not cause surface damage.



Pretreated with **SC-EZ-Solv** to loosen built-up asphaltenes.



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Oil & Gas - Industry Applications: Tank Cleaning

SAFE CARE[®] cleaners and solvents may be used for exterior and interior cleaning to remove accumulated crude oil sludge, as well as organic and inorganic solids.

A 5% concentration of **SC-1000 Enhanced Degreaser** is used with a power-washer for exterior tank cleaning. The absorbent boom captures the petroleum soil contaminants -- leaving a cleaning solution that biodegrades in less than 28-days.





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Oil & Gas - Industry Applications: Tank Cleaning

The benefits of using **SAFE CARE[®]** cleaners and solvents for interior tank cleaning include:

- Valuable petroleum fraction recovery
- Improved storage efficiency
- Reduced waste disposal costs
- Non-flammable, non-VOC

Sludge can be removed and refined to offset cleaning cost.

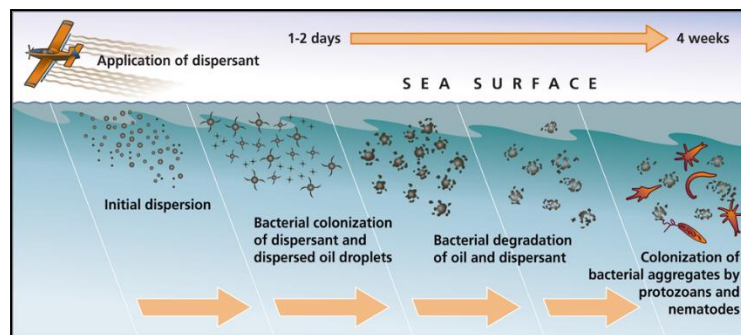
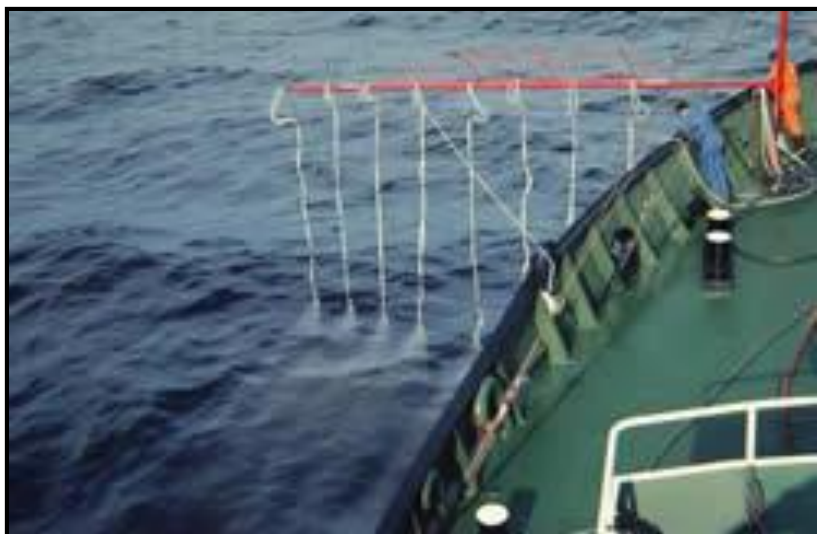




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Oil & Gas - Industry Applications: Oil Spills



SC-1000 may be spray applied using vessels for smaller spills and aircraft for larger off-shore spills to aid the natural process of degradation by separating the petroleum fraction molecules.



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Oil & Gas - Industry Applications: Wellbore Productivity

SC-1000 enhanced with **SC-SuperSolv** is applied at the injection well to effectively:

- Break apart bonds that hold hydrocarbon and biological blockage together
- Drive the dissolved blockages through the perforations into the wellbore where they can be removed
- Decrease the viscosity of heavy oils
- Improve pumping efficiencies





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Oil & Gas - Industry Applications: Wellbore Productivity

In some regions such as Southeast Asia, crude oil is thick with paraffin wax, which can build-up and decrease wellbore productivity.

Paraffin wax can be liquefied using **GP-DiSolv**



Before



After





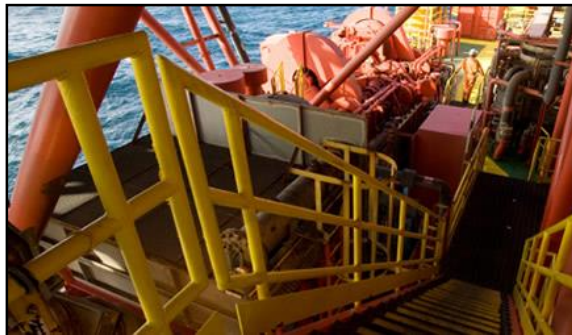
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Oil & Gas - Industry Applications: Rig / Equipment Maintenance

SAFE CARE[®] products can be used for virtually any space or surface associated with land or offshore oil production, including:

- Decks
- Walkways
- Cantilevers
- Crane booms
- Pump room and bilge
- Portable water tanks
- Pipes, hoses & valves





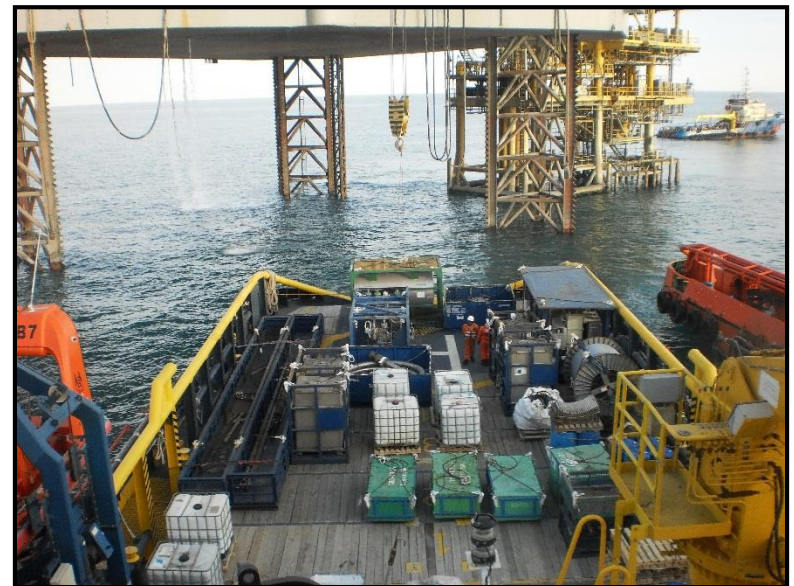
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Safe for People – Safe for the Environment:

By using just a few key **SAFE CARE[®]** cleaners, degreasers and solvents you can reduce your chemical inventory while providing environmentally safe solutions for multiple applications.

Because **SAFE CARE[®]** products are readily biodegradable, non-toxic, non-hazardous and non-reactive -- they are safe to use and store throughout production facilities.



We welcome you to join our
mission...

“Safely Cleaning Planet Earth”®

Thank you

