

# SAFE CARE.

# Cleaners, Solvents and Specialty Products

Powerful plant-based

industrial cleaners,

solvents and specialty

products that provide

extraordinary

cleaning results

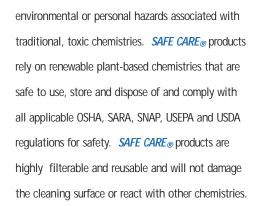
while protecting you

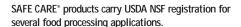
and the environment.



Members of the Biobased Manufacturers Association SAFE CARE® products
provide an alternative for
environmentally responsible
companies who appreciate and
understand the need to use
non-toxic industrial chemical
products. Using cutting-edge
technology, SAFE CARE® products offer the industrial user
powerful and effective cleaners,
degreasers, solvents and

specialty products without the









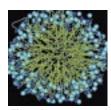
SC-1000™ is on the USEPA National Oil & Hazardous Substances Pollution Contingency Plan (NCP) Product Schedule

Comprised solely of plant-based materials, *SAFE CARE®* products contain alcohols, fatty acids, esters, waxes, saponifiers, chelators, enzymes and other fractions from soy, corn, palm kernel, peanut, walnut, safflower, sunflower, Canola, and cotton seed. The surfactants created by *GEMTEK®* consist of long-chain molecules; one end likes water, and is called

hydrophilic, the other end likes oil and dislikes water, and is called hydrophobic. When these surfactants are placed in water, the hydrophobic ends attract each other, and repel water, and arrange themselves into a spherical structure with the hydrophobic ends inside the sphere at its nucleus, and the hydrophilic ends on the outer surface of the sphere. This sphere is called a micelle.

The hydrophobic ends begin to orient themselves on the surface of the soil lifting it from the cleaning surface to become part of a micelle, thus cleaning the surface. When combined with water, micelles break water's surface tension resulting in "super wet" water. That same action allows the micelles to penetrate organic soils and to hold them in liquid suspension. In effect, the micelle cleaning action is

unique and can only be related to the effect of an atomic explosion where random interaction of the particles loosens the soil.



Micelle: The hydrophilic ends (heads) of the surfactant molecules are depicted as balls, and the hydrophobic ends (tails) are lines.

Figure A

Micelles enable us to clean soils without damaging the cleaning surface. Figure "A" is a highly schematic illustration of the manner in which the colloid particles called micelles perform in reducing surface tension of water in a very dilute solution.

Our leading formulation, *SC-1000<sup>TM</sup> Aqueous Cleaner*, is the most versatile and powerful surfactant systems in the industry today. *SC-1000<sup>TM</sup> Aqueous Cleaner*, the core ingredient in many *SAFE CARE* products, is so powerful that crude oil will be completely surrounded and lifted from the cleaning surface without causing an emulsion or damage to the cleaning surface.

The technology used for cleaning chemistries derived from *SC-1000™* are colloidal solutions comprised of plant-based non-ionic surfactants that create unique hydrocarbon release agents that can tolerate tremendous soil loads. Powerful micelle cleaning action causes long chain hydrocarbon soils



SAFE CARE® cleaners and solvents may be used throughout manufacturing facilities.

such as fats, greases, oils, lipids, proteins and sugars to virtually repel from the cleaning surface so that soils can be rinsed away with water.



SC-1000™ Aqueous Cleaner was one of the first products certified under the

Clean Air Solvents program by the California South
Coast Air Quality Management District; *SC-Aircraft*& Metal Cleaner™ and *SC-Solv-Ex Safety Solvent*later became part of that list of Clean Air Solvents.

The *SAFE CARE*® Safety Solvents include product formulations that are evaporative and non-evaporative with KB values ranging from 150 to over 1000. *SC-Supersolve™* and *SC-Solv-Ex Safety Solvent™* is water-miscible and is ideal for use with the *SAFE CARE*® aqueous cleaners, while

other solvents such as SC-EZ-Solv™ are non-water

miscible.

SC-1000<sup>™</sup> is safe to use in post-harvest wash applications.





### SAFE CARE® PRODUCTS ARE:

- · Non-toxic
- · Non-reactive
- Non-carcinogenic
- Readily biodegradable
- · Derived from renewable resources
- · Safe to use, store and dispose of

### SAFE CARE® PRODUCTS DO NOT CONTAIN:

- · Petroleum distillates
- Glycol ethers
- Terpenes
- Synthetics
- · Builders & reagents
- Caustics
- Volatile organic compounds (VOCs)



GEMTEK® is pleased to have nine of its SAFE

CARE® products pass the stringent requirements

of the USEPA Design for the Environment

Program, including:

SC-1000™ Aqueous Cleaner Concentrate
SC-Premium Laundry Detergent
SC-Magic Pan™ Hand Dishwashing Liquid
SC-More Than Glass™ Cleaner
SC-EZ-Solv™ Safety Solvent
SC-Odor-Ex Odor Neutralizer
SC-Odor-Ex Cleaning Deodorizer
SC-OmniBrite Acid Cleaner
SC-OmniBrite Alkaline Cleaner

# **CLEANERS**:

SC-1000™ Aqueous Cleaner Concentrate

SC-2000™ All Purpose Cleaner

SC-Multi-Surface Cleaner

SC-Aircraft and Metal Cleaner™

SC-More Than Glass™ Cleaner

SC-Heavy Duty Hand Cleaner

SC-Grease Trap and Drain Cleaner

SC-Fruit & Vegetable Wash

SC-Stainless Steel Cleaner

SC-Magic Pan™ Hand Dishwashing Liquid

SC-Kitchen Exhaust Hood & Filter Cleaner

SC-Floor & Tile Cleaner

SC-Bathroom Cleaner

SC-Premium Laundry Detergent

SC-Laundry Stain Remover & Pre-soak

SC-Carpet and Upholstery Spotter & Shampoo

SC-Safe-T-Solve Concrete Cleaner

SC-Mold & Mildew Cleaner

SC-Oven & Grill Cleaner

# **SPECIALTY PRODUCTS:**

SC-Odor-Ex Odor Neutralizer

SC-Odor-Ex Cleaning Deodorizer

SC-OmniBrite Acid Cleaner

SC-OmniBrite Alkaline Cleaner

SC-Steel Bright Polish

## **SAFETY SOLVENTS:**

SC-Supersolve™

SC-MaxiSolv™

SC-EZ-Solv™

SC-Actisolv™

SC-Graffiti, Tar & Gum Remover

SC-Solv-Ex

SC-SoyEster™



# INDUSTRY APPLICATIONS

## **INDUSTRIAL**

Metalworking Manufacturing Process Cleaning Facilities Maintenance

### TRANSPORTATION

Aviation
Marine
Rail/Bus
Trucking
Automotive

# **FOOD PROCESS**

Food Process Cleaning Meat, Poultry, and Fish Processing Egg Processing Dairy Product Processing Beverage Production

## **AGRICULTURAL**

Irrigation Cleaner Root Stimulator Soil Remediation Equipment Cleaning

# **PETROLEUM**

Oil Spill Recovery
Soil Remediation
Equipment and Rig Maintenance
Cooling Pond Clarification
Terminal and Production Facility
Maintenance

## **GOVERNMENT**

Military
Department of the Interior
Department of Energy
National Parks & Recreation

