

Green Cleaning Policy for IRIC building:

University of Idaho Building Services department has established a Green Cleaning Policy within the IRIC building on campus. This policy includes the types of cleaning products used, types of equipment used and the methods and practices adopted, as well as thorough training of custodial staff, and a commitment by the department to practice and promote environmentally friendly cleaning procedures. We will be responsible for the initiation, communication, and compliance verification in regards to the LEEDS qualifications for the IRIC building.

The standards outline in our Green Cleaning Policy is intended to reduce the exposure of faculty, staff, students and visitors of the IRIC building to chemical, biological, and particulate matter that may be harmful to human health.

Sincerely,



Tom Fischer, Building Services Manager

University of Idaho Green Cleaning Policy within Facilities

University of Idaho Building Services' Mission is to provide a dynamic learning environment and meet the needs of its diverse community. Team Cleaning Specialist should strive at all times to be sure that this environment is kept clean, comfortable, healthy and inviting to the community. All areas should be maintained in a way that provides a sense of pride to those who work and who are educated within the buildings, through the efforts of the U of I custodial staff.

In keeping with this mission, and with the university's commitment to sustainability, a "Green Cleaning" policy has been adopted. This policy includes the types of cleaning products used, types of equipment used and the methods and practices adopted, as well as thorough training of custodial staff, and a commitment by the Building Services department to practice and promote environmentally friendly cleaning procedures.

Building Services will show its commitment to this policy and to the environment by adopting the following goals:

- Using Sustainable Earth or other cleaning products that meet Green Seal standards, or products with low levels of VOCs (volatile organic compounds) whenever possible.
- Purchasing and using only CRI certified power equipment in this facility, and maintaining that equipment to that standard.
- Using concentrated cleaning products whenever possible.
- Using a cleaning products system whereby the chemicals are propositionally and accurately diluted with cold water.
- Eliminating phosphates and aerosol products.
- Using ECO Green paper products that meet EPA standards for high post-consumer recycling content.
- Compliance with all relevant laws, regulations, legislation and industry standards.
- Conserving energy, water and resources while providing a clean, sanitary, and healthy environment.
- Instilling a sense of pride and environmental responsibility in the custodial staff, making them aware of how the products, equipment and methods they use to clean impact the earth.
- Training custodial staff as to the proper use of the cleaning products, supplies and equipment by the vendors supplying these items, and by the custodial staff trained by these vendors.
- Voicing the expectation that these methods must be followed, and that it is the responsibility of the custodial staff to do so.
- Using every opportunity to learn and to educate others, in the "green cleaning" methods and standards, and to promote the benefits of "green cleaning" whenever possible.
- Physically do monthly building cleaning audits on all academic buildings to ensure the level of cleanliness is kept up to a high standard.

Guidelines for University of Idaho Green Cleaning Policy in the IRIC Building

Leadership

The University of Idaho Building Services Manager within Facilities along with the Custodial Foreperson who oversees the cleaning within the IRIC Building will maintain the green cleaning standards within the building. They will be responsible for the initiation, communication, and compliance verification in regards to the LEEDS qualifications for IRIC.

Administrative & Management Requirements

Training

A training program has been written for Team Cleaning Specialists who are responsible for the implementing green cleaning procedures on a daily basis. The training program is to ensure staff understands the environmental and health issues associated with cleaning products and equipment, as well as their specific responsibilities for application and adherence for the policy. All Team Cleaning Specialists and Custodial supervisors will be trained on this. The Building Services Manager is responsible for updating the training program.

Vulnerable Populations

The Custodial Foreperson will post on their custodial closet door a list on instructions on who to notify if any occupants think that any of the cleaning chemicals may cause them undue discomfort. The Custodial Foreperson will develop a list of building occupants who self- identify themselves that they me susceptible to health problems from exposure to cleaning chemicals. The Custodial Foreperson will be responsible for the maintenance of this list for the building. Persons on the vulnerable populations list will be informed prior to any applications of clean, not-routine cleaning chemicals or procedures. To the best of our ability, these individuals will be accommodated with respect to cleaning procedures via frequencies, timing, product choices or some combination thereof.

Staffing Model

A staffing model for IRIC along with their detail cleaning schedules and tasks will be maintained. The schedule will be maintaining these schedules for the Team Cleaning Specialist. See cleaning schedule (exhibit 1 & 2) and job duties for each position for each Team Cleaning Specialist (exhibits 3 thru 6).

Building Cleaning Audits

There will be building cleaning audits either done by the Custodial Foreperson and/ or the Building Services Manager on a monthly basis to evaluate the effectiveness for the cleaning program. Standards are established by the Building Services Manager. (Building Cleaning Audit example-exhibit 7)

Occupant Feedback

Building Services shall develop provisions for collecting occupant feedback and continuous improvement to evaluate new technologies, procedures, and processes. This can be done by implement an occupant survey and complaint s response system electronically through the facilities web site. Also document survey results and remedial action actions taken.

Safe Handling and Storage

Team Cleaning Specialists are required to put on the required personal protective equipment (PPE) whenever using cleaning chemicals. Team Cleaning Specialists are trained in the safe handling of chemicals, including a review of the Safety Data Sheets (SDS) for each chemical. The training includes instructions to not mix different chemicals and first-aid actions to take in event of accidental chemical contact with skin or eyes. Team Cleaning Specialists are instructed to report accidents and spills immediately. All accidents are documented and investigated. They are also required to inform their supervisor of any adverse reactions to using chemicals.

Chemicals are stored in dedicated storage rooms and custodial closets away from heat, sunlight and foodstuffs. All containers and spray bottles are clearly labeled. The transfer or storage of cleaning chemicals in unmarked containers, food containers or drink containers is prohibited.

Spill kits are available in each storeroom that contains chemicals for the handling of small spills. For larger spills, the risk of accidental falls is the primary safety hazard. Larger spills are to be contained and controlled using standard diking bags provided for stripping and waxing floors. The spilled chemical is then removed using a shop vacuum. Once the chemical has been removed the area will be washed and rinsed until the entire residue is eliminated.

Entryway Maintenance

Entryway Maintenance is performed a minimum of once a week.

- Sweep or vacuum entry and matting (daily).
- Roll up and remove matting.
- Place wet floor signs and possibly caution tape as the situation dictates.
- Damp mop entryway. This reduces the potential for moisture to lead to bacterial and fungal growth when floor mats get wet.
- Replace mats and remove wet floor signs when area is dry.

Hand Hygiene

PERFORMANCE METRICS AND MEASUREMENT

Protocols promoting hand hygiene shall be wholly adopted. QC checks will be used to ensure 100% adoption.

PRACTICES TO OPTIMIZE HAND HYGIENE

- All restroom facilities, including those in public areas and back-of-house spaces shall include appropriate hand soaps.
- Hand soaps meet one or more of the following standards:
 - No antimicrobial agents (other than as a preservative) except where required by health codes and other regulations (i.e., food service and health care requirements)
 - Green Seal GS-41, for industrial and institutional hand cleaners
 - Environmental Choice CCD-104, for hand cleaners and hand soaps.

Concrete Floors

When wear paths begin to develop in the finish on concrete floors, the floor is “top scrubbed” removing a layer of finish, dirt and debris. The floor is then recoated using a green certified floor finish. All concrete floors are maintained with five coats of floor finish. Top scrubbing is a green preferred procedure that avoids the use of toxic strippers. When floors cannot be restored using the top scrubbing method, a complete stripping of all wax finish is performed using a non-certified (ammonia) based finish remover. A minimum of five coats of finish is then applied according to manufacturer specifications and application timelines.

Carpet Care

Carpets are deep cleaned once a year using sustainable powered carpet cleaning equipment certified by the Carpet & Rug Institute (CRI). Our machines use less water, fewer chemicals and have advanced ergonomic features compared to non-certified equipment. Interim carpet cleaning is scheduled to address the needs of high traffic areas. Carpets are pre-sprayed before cleaning with a hydrogen peroxide based chemical. A communication program to educate customers on the handling of small spills, and who to call so that spills can be removed is maintained by Team Cleaning Specialist.

BUILDING SERVICES CLEANING SCHEDULE

CLASSROOM CLEANING SCHEDULE

DAILY

- dust horizontal surfaces (department equipment excluded)
- Clean chalkboards and trays
- Replace chalk and erasers as needed
- Vacuum carpets
- Dust mops or vacuum hard floors, wet mop when needed.
- Check lights and replace as needed
- Empty trash

WEEKLY

- Spot clean walls
- Spot clean carpets
- Vacuum vents
- Dust high and low flat surfaces (departmental equipment excluded)

ANNUALLY

- Refinish floors
- Deep clean carpets
- Wash entry windows inside and out
- Clean inside windows

OFFICE CLEANING SCHEDULE

ONCE WEEKLY- TWO TIMES if Reception area

- Empty trash
- Vacuum floors
- Dust flat surfaces high and low (we will not disturb private property)
- Check lights and replace as needed
- Spot vacuum chairs
- Mop hard floors when needed

WEEKLY

- Vacuum carpets wall to wall
- Spot clean carpet
- Spot clean walls and doors
- Mop all hard floors

ANNUALLY

- Resurface hard floors on requested
- Deep clean carpets on request
- Clean furniture
- Clean inside windows

RESTROOMS ARE THOROUGHLY CLEAN DAILY AND RESTOCKED.

(exhibit #2)

Responsibilities for Building Services in Cleaning Laboratories at University of Idaho

Building Services will do custodial services in laboratories by emptying municipal trash, supplying paper towels to hand washing areas, sweeping or vacuuming floors, mopping floors, and refinishing floors when needed. Building Services also will collect waste glass if it is in an approved container and properly labeled.

Housekeeping practices within Labs

1. Laboratory personnel must keep floors free of obstructions and hazards to allow team cleaning specialists to service the labs and to keep the floors regularly cleaned. Team cleaning specialists will not pick up sharps up on floors such as glass pipettes, plastic pipette tips, glass capillary tubes, razor blades and other related sharps before sweeping or vacuuming floors.
2. Waste should be deposited in appropriate receptacles. Team cleaning specialists will not collect waste containing improperly packaged waste glass, hazardous chemicals, radioactive materials, or pathological waste materials. If a team cleaning specialist suspects the presence of improperly disposed waste material in the trash, they must inform their supervisor immediately and will not remove unless supervisor determines whether the trash may be safely removed. If it is not safe, supervisor will leave notice stating why it wasn't emptied. Biohazard sign must appear in or on container for all biohazard waste.
3. The total weight of a glass disposal box ready for removal by team cleaning specialists may not exceed 40 pounds. This limit includes both the weight of glass and the weight of the container. Also the boxes containing waste glass must be designed and maintained so they can be easily and safely handled by team cleaning specialists.
4. Glass contaminated with acutely hazardous chemicals must be triple rinsed before being discarded as glass waste.
5. In biohazard labs, they need to have the proper signage in regards to biosafety level.
6. Team cleaning specialists will not clean equipment and counters in labs unless it is certified by EHS that the equipment and counters are decontaminated.
7. Laboratory personnel should disinfect all equipment and work surfaces on a routine basis, after work is completed with infectious agents, and after any spills or splashes of infectious agents.

Personal Protective Equipment for Team Cleaning Specialist

1. Eye protection
2. Latex or non-latex disposable gloves

Restroom Specialist Checklist

- Make sure cart is stocked properly (see stocking list)
- Block doorway of restroom with cart. Put out “out of order” sign in front of door.
- Flush toilet and urinals as you enter the restroom. If there are any stoppages in any of the units, please try to remove. If unable to do, then put ‘out of order’ sign on unit and notify supervisor.
- Dispense 1 pump of Clean by Peroxy solution per toilet or urinal with stock bottle. Remember proper dwell time for disinfectant, which is 10 minutes.
- Refill all paper and soap dispensers and empty trash including the sanitary napkin dispensers. Change liners when needed. **(Remember: #1 complaint in restrooms is not properly stocked with paper)**. Wipe inside of dispensers before filling. Make sure dispensers are working properly.
- Detail dust, top to bottom and detail sweep floor. Use a woolly duster and a disinfectant cloth to dust. When sweeping, remember to use putty knife to loosen gum and stubborn debris from floor.
- Spray disinfectant and wipe sinks. Use a crème cleanser and green pad for hard water deposits. Use putty knife with green pad or small brush to remove buildup around faucets.
- Scrub toilets and urinals with toilet brush or green pad. Clean bowl, sides and base of fixture. Wipe off lid and behind lid. If there is a tank, please clean first before outside of bowl. Lower the water in the bowl to scrub inside bowl. Scrub at least weekly with crème cleanser, screen or green pad to eliminate streaks and rings in bowls. Bowl should be white. Acid cleaner can be substituted for crème cleaners inside bowls
- Clean brights: use disinfectant, clean rag. Mirrors, glass, dispensers, counters, doors, walls, partitions, toilet/urinals flush valves and chrome, seats. Priority is “touch points”
- Change lights as needed.
- Mop floor with Clean by Peroxy cleaner daily. Spray floor with disinfectant as needed before mopping especially below urinals and toilets.
- Stock cart after restrooms are completed. Be sure to change mop weekly.

I understand the procedures outlined above:

Team Cleaning Specialist

Date

I agree the Team Cleaning Specialist have followed the procedures outlined above:

Trainer

Date

Detail Specialist Checklist

- Check room reservations daily.
- Morning shift:** check job card to see what doors need to be left unlocked or locked.
Evening Shift: Do not leave room unlocked unless otherwise directed.
- Remember the reduce schedule for cleaning offices and reception areas will be once a week for individual offices and twice a week for reception areas (dean's office).
- Empty trash, check liners, replace if torn or soiled. .
- Clean chalkboard with a Finney (note: in classrooms, you do everyday unless it is marked 'saved' and in offices, and in research labs only after building users have entirely erased their board), check chalk in tray (note: recommended to keep at least three pieces of chalk in the trays).
- Clean whiteboards with rag and cleaner (you may use Green Solutions glass cleaner).
- Remember to remind building users to mark 'trash' or 'dispose' for cardboard boxes before recycling them. We have signs to remind building users about this.
- Pick up paper clips, paper, pens, pencils, cans, and other items to large for the vacuum to handle.
- Straighten desks and chairs. Move trash cans, chairs, etc out of the way so these areas could be vacuumed.
- Dust desks, bookshelves, window ledges, tables, chairs, classroom equipment, and open horizontal surfaces- high to low. Use a clean, folded rag with 102 all-purpose cleaner and an extension duster. Spray Clean by Peroxy directly on rag; not on the area to be cleaned.
- Spot clean doors, push plates, glass (including entrance glass), walls (especially above trash cans), and trim when time is allowed.
- Research Labs: clean daily. Empty trash, replace liner as needed, clean entry glass and doors. Do not clean counters, equipment, or spills. You may wash off window sills. Do not dust labs. We deep clean empty, unused labs on request.
- Please note lights needed to be changed. Come back later to change and ask for help in changing them where needed.
- Stairs: dust/wash rails, window sills, walls, and any trim.
- Take trash to dumpster. Utilize utility cart if possible. Don't take heavy loads to dumpster if you don't have an utility cart. Break down and make them manageable to haul to dumpster.
- Remember:** Do not leave barrel in unsecured places during your breaks or lunch.
- Stock the barrel at end of shift.

I understand the procedures outlined above:

Team Cleaning Specialist

Date

I agree the Team Cleaning Specialist have followed the procedures outlined above:

Trainer

Date

Vacuum Specialist Checklist

(exhibit #6)

- Before you start always inspect to make sure the backpack's four filters are clean and in the proper place in the machine. If you are using the floor sweeper, make sure filters are in place. Please adjust the backpack so the weight of it rests on your hips and not your shoulders. This can be done by properly adjusting the shoulder straps and belt. Check vacuum bag every two hours or more often if vacuuming sand/gravel. Also inspect wand and know where crevasse tool is stored.
- Proper technique for vacuuming is using the wand side to side in an arc no wider than the width of your shoulders. This is to preserve your back. Work at a walking pace where possible. Take the lower section of the wand off or used the hose to vacuum furniture, edges, and corners of floors. Use a crevasse tool for elevator tracks. Roll your cord up, don't drag it or overextend it as it will make the cord twist.
- Hallways and lobbies can be dust mopped, vacuumed, or swept with a floor sweeper. Backpack vacuums and floor sweepers can be used on hard floors and carpet. Dust mopped hallways need to have the corners, doorways, and edges vacuumed at least weekly. Entry mats need to be done daily and you may need to use an upright vacuum. All dirt piles must be picked up before moving on to something else.
- Classrooms: work from front to back of room. Be sure to vacuum around/under trash cans and doorways. Look on job card to see if room needs to stay unlocked or locked
- Offices: Do traffic areas, doorways, around/under trash cans, under desks, and furniture. Edge room as needed. Avoid knocking items of desks shelves, and tables be being aware of your cord and hose. Reposition furniture, turn off lights and lock room.
- Stairwells: It is safer to vacuum stairs from bottom to top. They may also be swept
- Assist Detail Specialist by informing them of missed trash cans
- Remember: Check your paper bag every two hours or more frequently if vacuuming gravel, sand, etc. Please change paper bag when full. Don't leave backpack unattended in hallways.
- When you are finished with a building, please dump or replace paper bag, shake out cloth filter, and clean backpack inside and out. On Fridays, wash cloth filters, the two lower filters, and hang them up to dry. Equipment should be ready for the next day.

I understand the procedures outlined above:

Team Cleaning Specialist

Date

I agree the Team Cleaning Specialist have followed the procedures outlined above:

Trainer

Date

Building Audit-Building Services

(exhibit #7)

Building _____ Evaluated by _____ Date _____

0-unsatisfactory
1- needs improvement

2-meets requirements
3-exceeds requirements

4-outstanding

Restrooms/Locker rooms

36 possible pts

- toilets/urinals
- sinks
- dispensers
- floor appearance
- properly stocked
- dusting
- mirrors
- partitions
- lights

Toilets, urinals, and sinks should be clean and no hard water buildup on fixtures. Supplies should be stocked in dispensers and they are clean. Floor should be cleaned and no build up in corners. Partitions should be clean and dusted. Mirrors should be cleaned and no smears on glass. Lights should be working and they should be dusted

Classrooms/Labs

28 possible pts

- chalkboards/whiteboards
- dusting
- floor appearance
- vents
- desk/furniture
- clocks working properly
- lights

Chalkboards and whiteboard should be clean and no buildup. Chalk trays should be clean. Floors should be vacuumed or mopped. Dusting should be done on furniture; desks should be cleaned of fingerprints and spills. Clocks should be working and time is correct. Lights should be working and free of bugs. Trash cans should be clean.

Common Areas

24 possible pts.

- floor appearance
- dusting
- water fountains
- door glass
- vents
- lights

Floors should be vacuumed or mopped. Hard floors should be buffed. Drinking fountains should be cleaned and no hard water deposits. Door glass should be cleaned and no fingerprints. Horizontal and Vertical dusting should be done including vents. Lights should be working and free of bugs

Stairwells

12 possible pts

- walls/rails
- steps/landings
- lights

Stairs should be dust-free and mopped. Lights should be working and free of bugs.

Elevators

16 possible pts

- door tracks
- walls
- floor appearance
- lights

Tracks should be cleaned. Walls should be cleaned. Floors should be vacuumed or mopped. Lights should be working and free of bugs.

(over)

Offices

16 possible pts

dusting
 floor appearance
 waste can
 lights

Dusting should be done for all horizontal and vertical surfaces. Waste can should be clean. Floors should be vacuumed and clean. Lights should be working and free of bugs

Custodial Closets

16 possible pts

cleanliness/organization
 barrel/cart
 proper chemicals & labels
 equipment care

Supplies should be put away and organized on shelves. Barrel and restroom cart is clean and organized. Spray bottles are properly labeled. Equipment is clean.

--

0 Total score

--

--

148 total possible points

- 1) Do not make personal comments on things in buildings in which the team cleaning specialist may not have control such as cleaning offices everyday.
- 2) If you have comments on the cleaning from people inside the building, please put their name in the audit, good or bad. If I don't have a name, I am not going to put it in the comments especially if it is bad.
- 3) If you are seeing a lot of bad stuff and giving out low scores, the foremen like to see the areas that needs to be improved. So I would like more comments if possible if the building is bad.
- 4) If you see things that is real bad, please report them immediately to myself or your supervisor so it can be taken care of a prudent manner.
- 5) Maybe not rate an area so low if there are bugs in the fixtures unless it is very noticeable.
- 6) Need to put in comments if you rate the area from 0-1, or if you rate it a 4.
- 7) Do audits bi-monthly on buildings so you have more time to audit buildings
- 8) If you don't have time to do the entire audit in one day, maybe take two to three days
- 9) May have foremen do audits on their buildings on the months they are not audited by staff.

University of Idaho green products utilizes by Building Services

Cleaning Products

- Spartan Chemical Clean by Peroxy- utilizes to clean and disinfect restrooms, floors, and floors. Hydrogen Peroxide based chemical. Also utilized for carpet cleaning and in auto scrubbers for cleaning floors
- Spartan Chemical Green Solutions Glass Cleaner-utilize to clean glass
- Spartan Chemical Green Solutions Floor Finish Remover- remove floor finish off tile or concrete floors
- Spartan Chemical Green Solutions Floor Seal & Finish- floor finish for tile and concrete floors. Zinc-Free floor finish.

(Cold water is recommended for all chemicals mention above and exhibit A shows the dilution ratios for the Clean by Peroxy chemical. Cleaning chemical specification, dilution ratios, and SDS sheets are provided)

Paper products

- Georgia-Pacific Compact Coreless toilet paper. Provides 95% waste reduction by eliminating corrugate box, roll cores, and inner wraps. 100% post consumer content
- Georgia-Pacific Envision Hardwound Brown paper towels- meets Green Seal standard GS-1 based on chlorine free processing, energy and water efficiency, and content of 100% recovered material, with 505 post-consumer material. (Specifications on paper is provided)

Can liners

- Spectrum can liners- the quantity of recycled plastic post-consumer material at least 10% of the weight of the bags

Hand soap

- Stoko Refresh Moisturizing Foam Soap-does not contain antimicrobial agents.
- Stoko Refresh Alcohol-Based hand sanitizing gel
(Specification for Foam soap and SDS sheets are provided)

Cleaning Equipment

- Pro Team Super Coach Pro vacuum- four level filtration, captures 99.97% of particulates, 66dBA
- Advance Adfinity REV X20R auto scrubber with gel batteries and separate chemical dispensing system. Can be use with water only
- Tennat 2510 floor burnisher with dust control skirt and gel batteries, 70dBA
- Advance AquaClean walk behind carpet extractor- has received the Carpet and Rug Institute (CRI) seal of approval in both low-moisture/high productivity and restorative modes
(Maintenance log for auto scrubber and burnisher is provided)

Clean by Peroxy Measurements:

Spray bottles: 1oz Peroxy per gallon ratio.

Clean by Peroxy needs to be mixed into gallon jug and poured into spray bottle, if being used as a cleaner in restrooms. Use Stock Bottle to measure Peroxy. One "squirt" from Stock Bottle measures out to ounce of product. Remember Clean by Peroxy has a shelf life of 7 days once it is diluted with water to be used as an effective sanitizer.

Mop Bucket: 2oz Peroxy per 4 gallons of water.

Auto scrubber (Powr-Flite): ½ ounce Peroxy per gallon for Powr-Flite auto scrubbers.

Carpet Cleaner: 3oz Peroxy per gallon. Should be mixed in pump up sprayer.



CLEAN by Peroxy[®]

all purpose hydrogen peroxide cleaner

Clean by Peroxy is a Green Seal™ Certified all-purpose cleaner that is environmentally responsible. It quickly removes everyday soils, including greasy residue.

The active ingredient in Clean by Peroxy All-Purpose Cleaner has a degradation profile that breaks down into oxygen and water.

It is non-viscous, biodegradable, phosphate free and is easily waste treatable.



Quality Maintenance and Chemical Specialty Products to Meet the Needs of Professionals



Spartan Chemical Company, Inc.
 1110 Spartan Drive
 Maumee, OH 43537
 1-800-537-8990
 www.spartanchemical.com

ALL YOU NEED:

Pale blue in color, with a fresh spring rain fragrance, Clean by Peroxy is pleasant to use. It tackles most soils and can be characterized as an all-you-need, all-purpose cleaner. Clean by Peroxy has been created from specially selected surfactants and blended with hydrogen peroxide. This combination provides unprecedented cleaning action to most surfaces and surface soils. Clean by Peroxy will even tackle grease and grime found in grout and on glazed ceramic tile!

ONE PRODUCT SIMPLICITY:

Clean by Peroxy is a unique product that will effectively clean windows, mirrors, floors, walls, carpets, restrooms, kitchens, tile and grout without streaking. By stocking Clean by Peroxy in your inventory, you minimize SKUs, inventory surplus, and employee training. Having one product to choose from will reduce accidental product mix-ups.

ENVIRONMENTALLY PREFERABLE:

Clean by Peroxy is non-combustible and it does not contribute to the production of photochemical smog, tropospheric ozone or poor indoor air quality. Clean by Peroxy will not contribute to eutrophication.

Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of this or any Spartan product. Material Safety Data Sheets for all Spartan products are available from your authorized Spartan distributor or by visiting www.spartanchemical.com.



Distributed by:

DIRECTIONS FOR USE:

Always pretest for colorfastness in an inconspicuous area before use. Do not use on marble and other acid sensitive surfaces. Do not use with metal drum or pail pumps.

Glass Cleaner: Dilute at 1:128 (1 oz./gal.) for everyday glass and mirror cleaning. Spray surface and wipe with a lint-free cloth.

Light-Duty Cleaning: Dilute at 1:64 (2 oz./gal.) for everyday light-duty cleaning. Spray surface and wipe with sponge, brush, mop or other cleaning cloth.

Medium-Duty Cleaning: Dilute at 1:32 (4 oz./gal.). Spray surface and wipe with sponge, brush, mop or other cleaning cloth.

Heavy-Duty Cleaning and Degreasing: Dilute at 1:10 (12 oz./gal.). Spray surface and wipe with sponge, brush, mop or other cleaning cloth.

For Daily Damp Mopping: Dilute 1:128 (1 oz./gal.). Fill bucket. Mop with Clean by Peroxy. Pick up the soil and excess cleaner with a clean mop. Rinse mops frequently and change solution as needed.

Carpet Extraction: Dilute at 1:64 (2 oz./gal.). Fill extraction equipment. Extract carpet.

Note: Cold water is recommended for dilution.



SPECIFICATIONS:

Specific Gravity – 1.014
 Density – 8.45 lbs./gallon
 pH Concentrate – 2.0 - 3.0
 Flash Point – none

Stability

- a. Shelf @ 24°C/75°F – One year minimum
- b. Accelerated @ 49°C/120°F – 30 days minimum
- c. Freeze/Thaw – Stable. Withstands 3 freeze/thaw cycles.
- d. Miscibility – Complete in all proportions in both hot and cold water.

Phosphate Free, Biodegradable

PACKAGING

003560	275-gallon totes
003555	55-gallon drum
003530	30-gallon drum
003515	15-gallon drum
003505	5-gallon pail
003504	1-gallon (4 per case)
482002	2-liters (4 per case)



Label copy is available in English, Spanish and French. Secondary labels are also available.

GUARANTEE: Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.



This product meets the Green Seal™ standard for industrial and institutional cleaners based on its reduced human and environmental toxicity and reduced volatile organic compound content.



WOOLSAFE approved maintenance products for wool and wool-rich products.



Certified Kosher



Product Available Worldwide. For institutional and industrial use only.



GREEN[®]
SOLUTIONS
Floor Finish Remover

finish & wax emulsifier

With no dyes or perfumes, this finish remover takes steps to reduce environmental impact while maintaining its ability to perform effectively. This product was specially formulated for use in conjunction with Green Solutions Floor Seal & Finish.



Providing Quality Maintenance and Chemical Specialty Solutions with Unparalleled Customer Service



Spartan Chemical Company, Inc.
 1110 Spartan Drive
 Maumee, OH 43537
 1-800-537-8990
 www.spartanchemical.com

LOW ODOR AND NO VOCs:

Green Solutions Floor Finish Remover is fragrance free and has low VOCs (volatile organic compounds). Use in facilities and confined areas with confidence. An ideal choice for healthcare facilities, retail establishments, schools, administrative type offices, and public buildings. No need to schedule floor stripping during "off hours" due to extremely offensive odors. Use 24 hours a day! Anytime and anywhere!

GREEN SEAL™ CERTIFIED:



Green Solutions Floor Finish Remover meets Green Seal's GS-40 standard for industrial and institutional floorcare products based on reduced human and aquatic toxicity and reduced smog production potential.

GO GREEN - NO BUTOXYETHANOL:

Green Solutions Floor Finish Remover does not contain butoxyethanol; however, it is a very effective floor stripper and wax emulsifier. Assertive, not aggressive is the best way to describe Green Solutions Floor Finish Remover. Butoxyethanol, also commonly referred to as butyl, is often used as a very effective solvent, however, it is a potential inhalation and skin hazard.

HIGH PERFORMANCE. EASY RINSE:

Green Solutions Floor Finish Remover is rated as a high performance floor finish remover due to the speed of the emulsification process and the ease at which it quickly releases Green Solutions Floor Seal & Finish and other cross-linked acrylic finishes. Green Solutions Floor Finish Remover works fast and efficiently. Heavy build-ups of finish and wax are removed with little effort. Green Solutions Floor Finish Remover rinses easily.

DIRECTIONS FOR USE:

Some individuals may be sensitive to ingredients in this product. Before using, read product label and MSD sheet. Wet floors may be slippery. Prevent pedestrian traffic with signs or barricades.

1. Depending on build-up, dilute Green Solutions Floor Finish Remover from 1:3 to 1:20 (6 oz. to 43 oz./gal. of water) with water. Automatic scrubbers: dilute up to 1:10 (12 oz./gal. of water).
2. Liberally apply Green Solutions Floor Finish Remover with mop to small section (100 sq. ft.) of floor. Be sure to completely cover floor to baseboards.
3. After 3 to 5 minutes, agitate the wet section with a mop or machine scrub. Pick up solution using a mop, wet vac or automatic scrubber.
4. Rinse thoroughly with clear water to remove residue or squeegee tracks as necessary.

NOTE: Cold water is recommended for dilution.

Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of this or any Spartan product. If questions remain, consult your employer or a physician. Material Safety Data Sheets for all Spartan products are available from your authorized Spartan distributor or by visiting www.spartanchemical.com.

SPECIFICATIONS:

- Total Active Ingredients – 41.4%
- Specific Gravity – 1.009
- Density – 8.40 lbs./gal.
- pH Concentrate – 10.5 – 11.5
- Flash Point (Cleveland Open Cup) – None
- Stability:
 - a. Shelf @ 25°C/75°F – in excess of one year
 - b. Accelerated @ 49°C/120°F – in excess of 90 days
 - c. Freeze/Thaw Cycle – can withstand 3 cycles
- Biodegradable
- Phosphate free



Distributed by:

PACKAGING	
350560	275-gallon totes
350555	55-gallon drum
350530	30-gallon drum
350515	15-gallon drum
350505	5-gallon pail
350504	1-gallon (4 per case)



This product meets the Green Seal™ standard for industrial and institutional floor-care products based on its reduced human and aquatic toxicity and reduced smog production potential.

Label copy is provided in English, Spanish and French. Secondary labels are also available.

GUARANTEE: Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.



Product available worldwide. For institutional and industrial use only.

© SCC 5/11 L3505

Spartan Chemical Company, inc.

Green Solutions® Floor Seal & Finish (350404)



Product Details



Green Solutions Floor Seal & Finish is an acrylic co-polymer based floor seal and finish. Formulated to contain only trace amounts of zinc, Green Solutions Floor Seal & Finish will not cause problems with sewage effluent. No heavy metals. No glycol ether. No formaldehyde. Very low ammonia. Green Solutions Floor Seal & Finish is built to respect the environmental issues of today.

Color	Dilution	pH	Scent
Clear	Straight	7.8-8.2	Mild Fragrance

Product Code:

Bar Code:

Size:

350404

10753727036803

1 GAL 4/CSE

350405

00753727036813

5 GAL PAIL

350415

00753727037032

15 GAL DRUM

350430

00753727037049

30 GAL DRUM

350455

00753727036820

55 GAL DRUM

350460

00753727037339

275 GAL TOTE

Spartan Chemical Company, inc.

Green Solutions® Glass Cleaner (350704)



Product Details



Quickly removes dirt with minimal effort. Dye and fragrance free.

Color	Dilution	pH	Scent
Clear	2 oz./gal.	7.5 - 8.5	Fragrance Free

Product Code:

Bar Code:

Size:

350704	10753727040749	1 GAL 4/CSE
350705	00753727040766	5 GAL PAIL
350715	00753727040780	15 GAL DRUM
350730	00753727040797	30 GAL DRUM
350755	00753727040803	55 GAL DRUM
350760	00753727040810	275 GAL TOTE



Green Seal™, Inc. Proudly Presents Certification to Spartan Chemical Company, Inc.

Green Seal™, Inc. certifies that the following products comply with the Green Seal Standard for Cleaners for Industrial and Institutional Use (GS-37, 2011) and are licensed to use the Green Seal Certification Mark:

- BioRenewables Glass Cleaner ♦ Clean by Peroxy All Purpose Cleaner ♦ Green Solutions All Purpose Cleaner
- Green Solutions Carpet Cleaner ♦ Green Solutions Glass Cleaner ♦ Green Solutions Industrial Cleaner
- Tribase Multi-Purpose Cleaner

(specific package sizes listed in certification letter)

Certified this 11th day of May, 2010.
Recertified the 13th day of January, 2012.

A handwritten signature in black ink, appearing to read "Mark T. Petruzzi".

Mark T. Petruzzi, Vice President of Certification



Green Seal™, Inc. Proudly Presents Certification to

Spartan Chemical Company, Inc.

Green Seal™, Inc. certifies that the following products comply with the Green Seal Standard for Floor-care Products for Industrial & Institutional Use (GS-40, 2011) and are licensed to use the Green Seal Certification Mark:

Green Solutions Floor Finish Remover
Green Solutions Floor Sealer & Finish

(specific package sizes listed in certification letter)

Certified the 17th day of March, 2006.
Recertified the 13th day of January 2012.

A handwritten signature in black ink, appearing to read "Mark T. Petruzzi".

Mark T. Petruzzi, Vice President of Certification



Spartan Chemical Company, Inc. Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):
CLEAN BY PEROXY
Product Number: 0035

Product Division:
Janitorial

Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product/Technical Information: 1-(800)-537-8990
Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spill Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Non-Hazardous Products

NFPA Ratings:	HMIS Ratings:
Health: 2 - Moderate Fire: 0 - Minimal Reactivity: 1- Slight	Health: 2 - Moderate Fire: 0 - Minimal Reactivity: 1- Slight Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	%Wt	CAS Registry No.	Table Z-1-A			NTP, IARC or OSHA Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
Alcohol ethoxylate	1-5	34398-01-1	Not Established	Not Established	Not Established	No
Hydrogen peroxide	1-5	7722-84-1	1.4	Not Established	Not Established	No
Alcohol ethoxylate	1-5	68439-46-3	Not Established	Not Established	Not Established	No
Quaternary amine	1-5	68478-94-4	Not Established	Not Established	Not Established	No
Fragrance	< 1.0	Proprietary	Not Established	Not Established	Not Established	No

SECTION III: PHYSICAL DATA

Boiling Point: 210-212 °F	Vapor Pressure: Undetermined
Vapor Density (AIR = 1): Unknown	Solubility in Water: Complete
pH: Undiluted: 2.1-3.0 Diluted 1:64: 3.0-4.0	Specific Gravity (H ₂ O=1): 1.014
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 5-10
Physical State: Liquid	
Appearance & Odor: Pale blue liquid, pleasant odor	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: > 212°F	Method Used: ASTM-D56
Flammable Limits: Not Established	Flame Extension: N/A
Extinguishing Media: Product does not support combustion. Use extinguishing media appropriate for surrounding fire.	
Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.	
Unusual Fire & Explosive Hazards: Combustion products are toxic. Releases oxygen when burned.	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not Established	Primary Routes of Entry:	Inhalation, Skin Contact, Eyes & Oral
Effects of Overexposure- Conditions to Avoid:	Causes eye irritation: Symptoms may include pain, redness, swelling and possible tissue damage. Causes skin irritation: Symptoms may include pain, redness and swelling. May be harmful if swallowed: Symptoms may include nausea, vomiting, pain and diarrhea. Breathing product mist may cause respiratory irritation: Symptoms may include coughing and difficulty breathing. Do not get in eyes, on skin, or on clothing. Avoid breathing product mist. Do not swallow. Use with adequate ventilation. Wash thoroughly after handling.		
Conditions Aggravated by Use:	Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis.		
Emergency & First Aid Procedures:			
Eyes:	Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.		
Skin:	Remove contaminated clothing. Rinse skin immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.		
Ingestion:	Do not induce vomiting. Drink one or two glasses of water to dilute product. Do not give anything by mouth to an unconscious person.		
Inhalation:	Move person to fresh air. Get medical attention if irritation persists.		
Note to Physician: Contains hydrogen peroxide. Ingestion may result in distention of the esophagus and stomach			

SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	Metals; metal ions; organic materials; hypochlorites and oxidizable materials
Hazardous Decomposition Products:	Oxygen, CO, CO2	Hazardous Polymerization:	Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:	Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (if permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for disposal. Keep spill out of storm sewers and waterways.
Waste Disposal Method:	Dispose of in compliance with all federal, state and local laws and regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection:	Not normally required when good general ventilation is provided. However, if exposure limits (see Section II) are exceeded or respiratory irritation occurs, use of a NIOSH approved respirator suitable for the use-conditions and chemicals in Section II should be considered.
Ventilation:	Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Rubber or other impervious gloves are recommended.
Eye Protection(Specify Type):	Splash goggles are recommended to prevent eye contact.
Other Protective Equipment:	For further reference see 29 CFR 1910.132-138.

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing:	Do not use with other chemicals. Mixtures of this product with other chemicals, particularly those containing chlorine (hypochlorite) bleach, may result in the production of toxic gases.
Other Precautions:	Keep out of reach of children.

© SCC 06/01/2013

CLEAN BY PEROXY

Ref: 29 CFR 1910.1200 (OSHA)

Name: Ronald T. Cook
Effective Date: 06/01/2013
Changes: General Review

Title: Manager, Regulatory Affairs
Supercedes: 08/20/2010

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond sellers control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.



Spartan Chemical Company, Inc. Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):
GREEN SOLUTIONS GLASS CLEANER
Product Number: 3507
2-Liter Cartridge 102: 3512

Product Division:
Janitorial

Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product/Technical Information: 1-(800)-537-8990
Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spill Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Non-Hazardous Products

NFPA Ratings:	HMIS Ratings:
Health: 1- Slight Fire: 0 - Minimal Reactivity: 0 - Minimal	Health: 1- Slight Fire: 0 - Minimal Reactivity: 0 - Minimal Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	%Wt	CAS Registry No.	Table Z-1-A			NTP, IARC or OSHA Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
Alkyl polyglucoside	1-5	68515-73-1	Not Established	Not Established	Not Established	No
Alcohol ethoxylate	1-5	68439-46-3	Not Established	Not Established	Not Established	No
Alkyl polyglucoside	1-5	110615-47-9	Not Established	Not Established	Not Established	No

SECTION III: PHYSICAL DATA

Boiling Point: 212 °F	Vapor Pressure: Unknown
Vapor Density (AIR = 1): Unknown	Solubility in Water: Complete
pH: Undiluted: 7.5- 8.5 Diluted 1:64: 8.5-9.5	Specific Gravity (H ₂ O=1): 1.01 @ 75 F
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 5-10%
Physical State: Liquid	
Appearance & Odor: Clear liquid, mild odor. No fragrance has been added to this product.	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: >212 °F	Method Used: Estimate
Flammable Limits: Not Established	Flame Extension: N/A
Extinguishing Media: Product does not support combustion. Use extinguishing media appropriate for surrounding fire.	
Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.	
Unusual Fire & Explosive Hazards: Combustion products are toxic.	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not established	Primary Routes of Entry:	Inhalation, Skin Contact, Eyes; Oral
Effects of Overexposure- Conditions to Avoid:	Causes eye irritation: Symptoms may include pain, redness, swelling and tearing May cause skin irritation: Symptoms may include pain, redness and swelling. May be harmful if swallowed: Symptoms may include nausea, vomiting, pain and diarrhea. Inhalation of product mist may cause respiratory irritation: Symptoms may include coughing and difficulty breathing. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid breathing product mist. Wash thoroughly after handling.		
Conditions Aggravated by Use:	Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis.		
Emergency & First Aid Procedures:			
Eyes:	Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.		
Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Wash contaminated clothing before reuse.		
Ingestion:	Do not induce vomiting unless advised by physician or poison control center. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.		
Inhalation:	Move person to fresh air. Get medical attention if irritation persists.		

SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide	Hazardous Polymerization:	Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:	Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (if permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for recovery or disposal.
Waste Disposal Method:	Assure conformance with federal, state and local regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection:	Not normally required.
Ventilation:	Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Rubber or other impervious gloves are recommended when handling undiluted product.
Eye Protection(Specify Type):	Splash goggles are recommended when handling undiluted product.
Other Protective Equipment:	See 29 CFR 1910.132-138 for further guidance.

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing:	Wash thoroughly with soap and water after handling.
Other Precautions:	Keep out of reach of children.

© SCC 10/23/2010	Name: Ronald T. Cook	Title: Manager, Regulatory Affairs
GREEN SOLUTIONS GLASS CLEANER	Effective Date: 10/23/2010	Supercedes: 09/22/2008
Ref: 29 CFR 1910.1200 (OSHA)	Changes: Formula Revision	

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond sellers control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.



Spartan Chemical Company, Inc. Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):
GREEN SOLUTIONS FLOOR FINISH REMOVER
Product Number: 3505

Product Division:
Janitorial

Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product/Technical Information: 1-(800)-537-8990
Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spill Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Non-Hazardous Products

NFPA Ratings:	HMIS Ratings:
Health: 2 - Moderate Fire: 0 - Minimal Reactivity: 0 - Minimal	Health: *2 - Moderate; Chronic Hazard Fire: 0 - Minimal Reactivity: 0 - Minimal Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	%Wt	CAS Registry No.	Table Z-1-A			NTP, IARC or OSHA Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
*Diethylene glycol monobutyl ether	25-30	112-34-5	Not Established	Not Established	Not Established	No
Benzyl alcohol	5-10	100-51-6	44 (AIHA)	Not Established	Not Established	No
Monoethanolamine	1-5	141-43-5	6	15 (ACGIH)	Not Established	No
Alcohol ethoxylate	1-5	68439-46-3	Not Established	Not Established	Not Established	No

Comment: *This substance is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and of 40 CFR 372.

SECTION III: PHYSICAL DATA

Boiling Point: 200 °F	Vapor Pressure: Unknown
Vapor Density (AIR = 1): Unknown	Solubility in Water: Complete
pH: 10.5-11.5	Specific Gravity (H ₂ O=1): 1.008
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 30-40
Physical State: Liquid	
Appearance & Odor: Clear liquid, mild odor	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: > 200°F	Method Used: ASTM-D56
Flammable Limits: N/A	Flame Extension: N/A
Extinguishing Media: Carbon dioxide, dry chemical, synthetic foam or water.	
Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.	
Unusual Fire & Explosive Hazards: Combustion products are toxic.	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not Established	Primary Routes of Entry:	Inhalation, Skin Contact, Eyes & Oral
Effects of Overexposure- Conditions to Avoid:	Causes severe eye irritation: Symptoms include pain, redness, swelling of the conjunctiva and possible tissue damage. Causes severe skin irritation: Symptoms include pain, swelling and redness. Harmful contact may not cause immediate pain. Harmful if absorbed through the skin. Harmful if swallowed: Causes irritation to esophagus and mucous membranes with symptoms of pain, nausea, vomiting and diarrhea. Inhalation of product vapors or mist may cause respiratory irritation: Symptoms may include coughing and difficulty breathing. Contains benzyl alcohol which may cause headache, dizziness, nausea and drowsiness. Contains monoethanolamine which may cause liver and kidney damage with repeated exposure. DO NOT GET IN EYES, ON SKIN OR CLOTHING. AVOID BREATHING PRODUCT VAPOR OR MIST. DO NOT TASTE OR SWALLOW. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.		
Conditions Aggravated by Use:	Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis.		
Emergency & First Aid Procedures:			
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Get medical attention.		
Skin:	Remove contaminated clothing. Flush skin with plenty of water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.		
Ingestion:	Get medical attention. Do not induce vomiting. Drink one or two glasses of water to dilute product. Do not give anything by mouth to an unconscious person.		
Inhalation:	In case of respiratory irritation or dizziness; move person to fresh air. If not breathing; give artificial respiration. If breathing is difficult; give oxygen. Get medical attention if irritation persists.		

SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	Strong acids and oxidizing agents
Hazardous Decomposition Products:	None known	Hazardous Polymerization:	Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:	Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (if permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for disposal. Keep spill out of storm sewers and waterways.
Waste Disposal Method:	Dispose of in compliance with all federal, state and local laws and regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection:	Not normally required when good general ventilation is provided.
Ventilation:	Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Neoprene, nitrile or rubber gloves are recommended to prevent skin contact.
Eye Protection(Specify Type):	Splash goggles are recommended to prevent eye contact.
Other Protective Equipment:	Rubber or other impervious footwear is recommended to prevent skin contact. Use of rubber apron, face shield and other protective equipment may be considered to prevent or minimize contact with this product. See 29 CFR 1910.132-138 for further guidance.

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing:	Keep container tightly closed. Store in a cool, dry area. Protect from freezing. Do not store above 120°F. Do not mix with other chemicals.
Other Precautions:	Keep out of reach of children.

© SCC 10/17/2012

**GREEN SOLUTIONS FLOOR FINISH
REMOVER**

Ref: 29 CFR 1910.1200 (OSHA)

Name: Ronald T. Cook

Effective Date: 10/17/2012

Changes: Section II correction

Title: Manager, Regulatory Affairs

Supersedes: 06/01/2010



Spartan Chemical Company, Inc. Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):
GREEN SOLUTIONS FLOOR SEAL AND FINISH
Product Number: 3504

Product Division:
Janitorial

Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product/Technical Information: 1-(800)-537-8990
Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spill Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Non-Hazardous Products

NFPA Ratings:	HMIS Ratings:
Health: 1 - Slight Fire: 0 - Minimal Reactivity: 0 - Minimal	Health: *1 - Slight; Chronic Hazard Fire: 0 - Minimal Reactivity: 0 - Minimal Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	%Wt	CAS Registry No.	Table Z-1-A			NTP, IARC or OSHA Carcinogen
			TWA ₃ mg/m ³	STEL mg/m ³	CEILING mg/m ³	
Styrene/acrylic copolymer	15-20	25987-66-0	Not Established	Not Established	Not Established	No
Ester alcohol	1-5	25265-77-4	Not Established	Not Established	Not Established	No
Tributoxyethyl phosphate	1-5	78-51-3	Not Established	Not Established	Not Established	No
Ethylene copolymer	1-5	67892-91-5	Not Established	Not Established	Not Established	No
Propylene glycol	1-5	57-55-6	Not Established	Not Established	Not Established	No

SECTION III: PHYSICAL DATA

Boiling Point: 212 °F	Vapor Pressure: Unknown
Vapor Density (AIR = 1): Unknown	Solubility in Water: Complete
pH: 7.8-8.2	Specific Gravity (H ₂ O=1): 1.02
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 20-30
Physical State: Liquid	
Appearance & Odor: Milky emulsion, mild odor	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: > 212°F	Method Used: ASTM-D56
Flammable Limits: Not Established	Flame Extension: N/A
Extinguishing Media: Product does not support combustion. Use extinguishing media appropriate for surrounding fire.	
Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.	
Unusual Fire & Explosive Hazards: Dried Product can burn. Combustion products are toxic.	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not Established	Primary Routes of Entry:	Inhalation, Skin Contact
Effects of Overexposure- Conditions to Avoid:	Causes mild eye irritation : Symptoms may include pain, redness, swelling and tearing. May cause skin irritation : Symptoms may include redness, pain and swelling. Harmful if swallowed : Symptoms may include nausea, vomiting, pain and diarrhea. Contains tributoxyethyl phosphate which may cause nervous system effects such as ataxia, breathing abnormalities and tremors with prolonged or repeated contact. No chronic health effects are expected from the intended use of this product. Avoid contact with eyes and skin . Do not taste or swallow . Wash thoroughly after handling .		
Conditions Aggravated by Use:	Use of this product may aggravate preexisting eye; skin and respiratory disorders such as asthma and dermatitis.		
Emergency & First Aid Procedures :			
Eyes:	Flush eyes with plenty of water for at least 15 minutes; remove contact lenses. Get medical attention.		
Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Wash contaminated clothing before reuse.		
Ingestion:	Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.		
Inhalation:	Move person to fresh air. Get medical attention if irritation persists.		

SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	None known
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide	Hazardous Polymerization:	Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:	Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for disposal. Keep spill out of storm sewers and waterways.
Waste Disposal Method:	Dispose of in compliance with all federal, state and local laws and regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection:	Not normally required when good general ventilation is provided. However, if respiratory irritation occurs, a NIOSH approved respirator suitable for the use-conditions and chemicals listed in Section II should be considered.
Ventilation:	Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Not required for normal use. Rubber or other impervious gloves are recommended for prolonged or frequent contact.
Eye Protection(Specify Type):	Not required for normal use.
Other Protective Equipment:	See 29 CFR 1910.132-138 for further guidance.

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing:	Protect from freezing.
Other Precautions:	Keep out of reach of children

© SCC 06/08/2012 Name: Ronald T. Cook Title: Manager, Regulatory Affairs
GREEN SOLUTIONS FLOOR SEAL AND Effective Date: 06/08/2012 Supercedes: 06/08/2009
FINISH
Ref: 29 CFR 1910.1200 (OSHA) Changes: General Review

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond sellers control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.

Loading...



Menu

Shortcuts ▾

[Home](#) » [Bathroom, Facial & Door Tissue](#) » [High Capacity Roll Bathroom Tissue & Dispensers](#) » [Compact® Coreless Bathroom Tissue & Dispensers](#)

Add to list

Current List

current 0

Mfg: 19378

Compact® Coreless High Capacity 2-Ply Bathroom Tissue

Expand ▾



Loading...



Menu

Shortcuts ▾

[🏠 Catalog Home](#) » [Paper Towels & Dispensers](#) » [Universal Hardwound Roll Towels and Dispensers](#)

Add to list

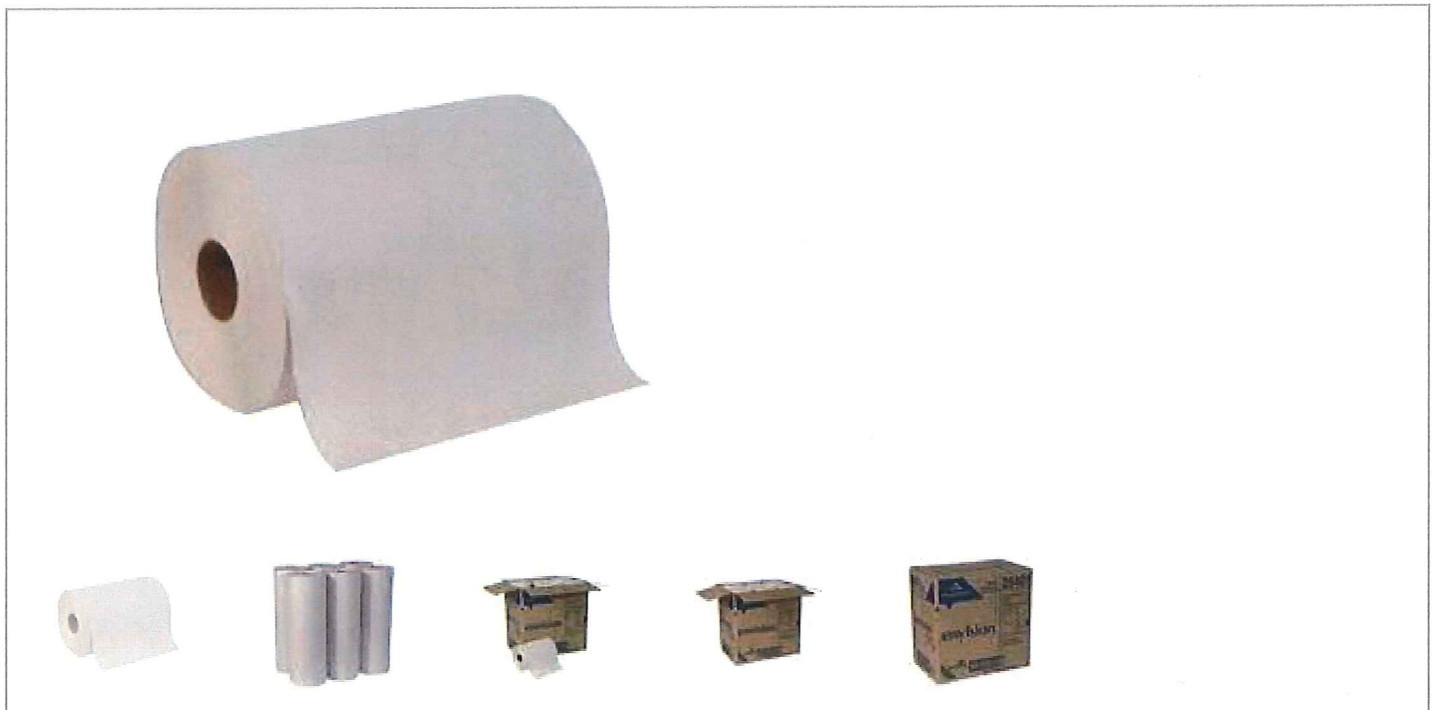
Current List





current 0

Mfg: 26401





Envision® Hardwound Roll Paper Towel

Expand ▾



Features 
<ul style="list-style-type: none">o High capacity 1,500 sheets 2-ply tissue per roll reduces service calls to refill dispensers and reduces the risk of run outo Compact® bath tissue has 95% less packaging waste vs. GP standard bath tissue by eliminating cardboard cores, inner wraps and outer corrugateo 100% tissue usage helps eliminate stub roll waste and saves you moneyo This product meets Green Seal™ Standard GS-1 based on chlorine free processing, energy and water efficiency, and content of 100% recovered material, with a minimum of 25% post -consumer material. GreenSeal.org.o EPA compliant for recycled fiber contento Variety of dispensing options to fir your needs and enhance patron's perception of the facilityo Processed Chlorine Free® Certified
Related Products 
Specifications 
Product Resources 

© Georgia-Pacific Consumer Products LP. All rights reserved. [Terms of Use](#) / [Privacy Notice](#) / [California Privacy Rights](#) / [How to Link to Us](#) / [Contact Us](#)

Features 
<ul style="list-style-type: none">o Offers dependable absorbency, thickness, and strengtho Low per-unit cost make these paper towels a good everyday choiceo Smaller diameter roll fits into a wider range of everyday universal dispenserso EPA compliant for recycled fiber contento Processed Chlorine Free® Certifiedo Can help earn LEED credits
Related Products 
Specifications 
Product Resources 

© Georgia-Pacific Consumer Products LP. All rights reserved. [Terms of Use](#) / [Privacy Notice](#) / [California Privacy Rights](#) / [How to Link to Us](#) / [Contact Us](#)



[Corporate](#)

[Markets](#)

[Product Catalog](#)

[3 Point Program](#)

[Videos](#)

[Find a Skin Expert](#)

[GO](#)

[Stoko Products](#) → [Cleanse](#) → [Light-Duty](#) → [Stoko Refresh® Foam](#) → Stoko Refresh® Moisturizing Foam Soap 800ml refill

Stoko Refresh® Moisturizing Foam Soap 800ml refill



[E-mail this product to a friend](#)



- Green Seal Certified™
- Thick, luxurious foam encourages frequent handwashing
- Hygeni-Lok system means hygienically sealed refills provide a fresh new pump with every changeout
- Light, fresh fragrance



SKU: 29932

[View larger image](#)



Material Safety Data Sheet

MSDS ID: SK-145D

*** Section 1 - Chemical Product and Company Identification ***

Product Name: STOKO Refresh® Moisturizing Foam Hand Cleaner

Product Use: Skin Cleansing

Company Information

Evonik Corporation
2401 Doyle Street
Greensboro, NC 27406

Non-Emergency # 800-242-2271

Emergency # (800) 424-9300 CHEMTREC (North America)
Emergency # (703) 527-3887 CHEMTREC (International, call collect)

General Comments

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving the product. All non-emergency questions should be directed to the toll free customer service number.

*** Section 2 - Hazards Identification ***

Emergency Overview

No health hazard is anticipated during normal handling and use.

Potential Health Effects: Eyes

Will cause minor eye irritation.

Potential Health Effects: Skin

None.

Potential Health Effects: Ingestion

Harmful if swallowed.

Potential Health Effects: Inhalation

None.

HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0 Pers. Prot.: None Applicable

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component
68891-38-3	Poly(oxy-1,2-ethanediyl), α -sulfo- ω -hydroxy-, C12-14-alkyl ethers, sodium salts
68201-46-7	Glycerides, coco mono- and di-, ethoxylated
67784-88-7	Glycerides, palm-oil mono- and di-, hydrogenated, ethoxylated
61789-40-0	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, inner salts

Component Information/Information on Non-Hazardous Components

This product is a cosmetic intended for personal use in the workplace and is thus regulated by FDA.

See container label regarding proper handling and use of this product.

Ingredients are listed in descending order of concentration on the container label.

For OSHA workplace hazards, investigate and read and understand component MSDS's before manufacturing.

Material Safety Data Sheet

Product Name: Stoko Refresh Moisturizing Foam Hand Cleaner

MSDS ID: SK-145D

Toxic Substances Control Act (TSCA): Exempt

Workplace Hazardous Materials Information System (WHIMS-Canada): Exempt-cosmetic hand cleaner

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice if symptoms persist.

First Aid: Skin

None.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Give several glasses of water. DO NOT induce vomiting unless directed to do so by medical personnel.

First Aid: Inhalation

None

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

This product is not flammable.

Upper Flammable Limit (UFL): Not determined

Lower Flammable Limit (LFL): Not determined

Method Used: Not applicable

Flash Point: Not Established

Flammability Classification: Not Flammable

Auto Ignition: Not determined

Hazardous Combustion Products

None identified.

Extinguishing Media

Water spray, dry chemical, carbon dioxide, foam.

Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Absorb spill with inert material.

Clean-Up Procedures

Absorb spill with inert material. Shovel material into appropriate container for disposal.

Evacuation Procedures

None.

Special Procedures

None.

*** Section 7 - Handling and Storage ***

Handling Procedures

Keep out of reach of children.

Material Safety Data Sheet

Product Name: Stoko Refresh Moisturizing Foam Hand Cleaner

MSDS ID: SK-145D

Storage Procedures

No special storage conditions required.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

FDA regulated. For OSHA workplace hazards, investigate and read and understand component MSDS's before manufacturing.

B: Component Exposure Limits

No information is available.

Engineering Controls

None necessary.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Avoid eye contact.

Personal Protective Equipment: Skin

None.

Personal Protective Equipment: Respiratory

None.

Personal Protective Equipment: General

Obey reasonable safety precautions and practice good housekeeping.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Blue	Odor: Perfume
Physical State: Liquid	pH: 4.5 - 6.5
Vapor Pressure: Not Established	Vapor Density: Not Established
Boiling Point: approx. 100° C	Melting Point: approx 0 °C
Solubility (H2O): Very soluble	Specific Gravity: 1.009 – 1.019 g/cc ³
	Flash Point: Not Determined

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under usual application conditions.

Chemical Stability: Conditions to Avoid

None

Incompatibility

None identified.

Hazardous Decomposition

None identified.

Hazardous Polymerization

Hazardous polymerization will not occur.

Material Safety Data Sheet

Product Name: Stoko Refresh Moisturizing Foam Hand Cleaner

MSDS ID: SK-145D

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

Minor eye irritation.

B: Acute Toxicity-LD50/LC50

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, inner salts (61789-40-0)

LD50: Oral LD50 Rat: 4900 mg/kg

Carcinogenicity

Component Carcinogenicity

No information is available.

Other Toxicological Information

None.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

Ecological impacts are not expected with normal use.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No information available,

Environmental Fate

No information available.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Unadulterated material may be disposed as a non hazardous waste.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of empty containers according to all State and Federal environmental regulations.

*** Section 14 - Transportation Information ***

International Transportation Regulations

Not transportation regulated: Non-hazardous material.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

Not subject to TSCA regulation.

B: Clean Air Act

No information is available.

C: Component Analysis

No information is available.

Material Safety Data Sheet

Product Name: Stoko Refresh Moisturizing Foam Hand Cleaner

MSDS ID: SK-145D

State Regulations

A: General Product Information

None identified.

B: Component Analysis - State

None of this product's components listed in Section 2 are on the state lists from CA, FL, MA, MN, NJ, or PA.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Poly(oxy-1,2-ethanediyl), α -sulfo- ω -hydroxy-, C12-14-alkyl ethers, sodium salts	68891-38-3	Yes	DSL	No
Glycerides, palm-oil mono- and di-, hydrogenated, ethoxylated	67784-88-7	Yes	NDSL	No
Glycerides, coco mono- and di-, ethoxylated	68201-46-7	Yes	DSL	No
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, inner salts	61789-40-0	Yes	DSL	EINECS

*** Section 16 - Other Information ***

Other Information

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

MSDS History

This is a revised MSDS. Section's 2 & 3 have been revised to reflect proposed 2004 ANSI Standards format recommendations for 2007 implementation.
1-26-09 Reviewed with no changes.

Contact: Product Compliance Officer

Contact Phone: (800) 242-2271

This is the end of MSDS #: SK-145D

MATERIAL SAFETY DATA SHEET

Issued: 01/08/02 Revised: 02/01/05

Clsrc # 050123

Soy Technologies, LLC

1050 Elizabeth Dr. Unit 4 • Nicholasville KY 40356

Tel: 859-881-1200 • Fax: 859-275-7511

Section I — Identification

Product Name: SoyGreen® Stainless Steel Cleaner
Chemical Name: Mixture
Chemical Family: Mixture
Chemical Formula: Mixture

HMS:
Health: 1
Flammability: 1
Reactivity: 0
PPE: B

Section II — Composition Information on Ingredients N/A

Section III — Hazards Identification

Health Hazards (Acute and Chronic):

Acute: May cause eye irritation. May cause abdominal discomfort, nausea, and diarrhea if swallowed.
Chronic: No known adverse effects.

Medical Conditions Generally Aggravated by Exposure: None known

Section IV — First Aid Measures

Inhalation: Remove to fresh air.
Skin: Wash thoroughly with soap and water. Remove soiled clothing and wash before reuse.
Ingestion: Get medical attention.
Eyes: DO NOT RUB EYES. Immediately flush thoroughly with plenty of water. Get medical attention. If discomfort or symptoms develop, get medical attention.

Section V — Fire and Explosion Hazard Data

Flash Point (Method Used): > 200°F
Flammable Limits: Not determined
Extinguishing Media: Water spray, dry chemical, foam and CO₂.
Fire Fighting Procedures: Treat as oil fire. Use water spray to cool fire-exposed containers.
Fire and Explosion Hazards: Rags soaked with any solvent present a fire hazard and should always be stored in UL listed or Factory Mutual approved, covered containers. Improperly stored rags can create conditions that lead to oxidation. Oxidation, under certain conditions can lead to spontaneous combustion. This product contains antioxidants to retard oxidation

Section VI — Accidental Release Measures

Avoid uncontrolled releases of this material into the environment. Contain spilled material. Where necessary, collect using absorbent media. Transfer to secure labelled containers.

Section VII — Precautions for Safe Handling and Use

Precautions to be taken in handling and storing:

Store upright in a cool, dry well ventilated area, in tightly closed containers away from combustible materials, material used in combination with any other materials or in any other applications. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated.

Section VIII — Exposure Controls/Personal Protection

Ventilation/Engineering Controls: Adequate general ventilation.

Respiratory protection:

None required where adequate ventilation conditions exist.

Eye protection:

Chemical splash goggles recommended.

Skin protection: Other protective clothing or equipment:

Impervious gloves recommended. Wear suitable clothing to avoid skin contact.

Work/Hygienic practices:

Do not smoke in areas of storage or use. Avoid contact with eyes. Wash with soap and water immediately after handling.

Section IX - Physical and Chemical Characteristics

Boiling Point: > 600°F
Vapor Pressure (mm Hg.): Not determined
Vapor Density (Air = 1) Not determined
Solubility in Water: Partially soluble
Specific Gravity (H₂O = 1): .91 gm/ml
Melting Point: 30°F
Evaporation Rate (But Ac =1): Not determined
Appearance: Light yellow clear liquid
Odor: Mild

Section X — Stability and Reactivity

Stability: Stable
Conditions to Avoid: Excessive heat or open flame.
Incompatibility (Materials to Avoid): Strong oxidizing agents. Acids
Hazardous Decomposition Byproducts: CO and CO₂ may be produced.
Hazardous Polymerization: Will not occur.

Section XI — Toxicological Information

Eye irritant. This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as a probable or suspected human carcinogens.

Section XII — Ecological Information

Aquatic toxicity rating not determined. All possible measures should be taken to prevent release into the environment.

Section XIII — Disposal Considerations.

Disposal of all product and used clean up materials must be in accordance with all applicable federal, state and local regulations.

Section XIV — Transport Information

Not regulated.

Section XV — Regulatory Information

U.S. FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es): Eye Irritant.

STATE REGULATIONS:

Consult the regulations of the given state.

INTERNATIONAL REGULATIONS:

Consult the regulations of the importing country.

Section XVI — Other Information

This information relates only to the specific material and its designated uses. It may not be valid for the material used in combination with any other materials or in any other applications. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated.



Material Safety Data Sheet

MSDS ID: SK-200

*** Section 1 - Chemical Product and Company Identification ***

Product Name: STOKO Refresh® IHS Spray 4 in 1 System

Product Use: Hand Sanitizer

Company Information

Evonik Corporation 2401 Doyle Street Greensboro , NC 27406	Non-Emergency # 800-242-2271 Emergency # (800) 424-9300 CHEMTREC (North America) Emergency # (703) 527-3887 CHEMTREC (International, call collect)
------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------

General Comments

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving the product. All Non-emergency questions should be directed to the Toll Free, Non-Emergency number above.

*** Section 2 - Hazards Identification ***

Emergency Overview

Components ethanol is a severe eye irritant, resulting in corneal injury if not removed immediately. Prolonged inhalation may cause headache, eye, nose and throat irritation, with possible central nervous system effects: depressant. Ingestion of ethanol may cause birth defects (teratogen).

Potential Health Effects: Eyes

This product is irritating to the eyes and respiratory system.

Potential Health Effects: Skin

None.

Potential Health Effects: Ingestion

Seek medical attention.

Potential Health Effects: Inhalation

This product is irritating to the eyes and respiratory system.

HMIS Ratings: Health: 2 Fire: 4 Reactivity: 0 Pers. Prot.: None required.

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
64-17-5	Ethanol (ethyl alcohol)	60-70

Component Information/Information on Non-Hazardous Components

This hand sanitizer is regulated by the US Food and Drug Administration. However, it is not exempt from EPA TSCA IUR reporting criteria. Employers must inform workers of the hazards of this product and provide worker training on safe handling procedures.

See container label regarding proper handling and use of this product.

Ingredients are listed in descending order of concentration on the container label.

For OSHA workplace hazards, investigate and read and understand component MSDS's before manufacturing.

Workplace Hazardous Materials Information System (WHIMS-Canada): Exempt-cosmetic hand cleaner

Material Safety Data Sheet

Product Name: STOKO Refresh® IHS Spray 4 in 1 System

MSDS ID: SK-200

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

First Aid: Skin

None.

First Aid: Ingestion

If material is swallowed, get medical attention or advice.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

Component ethyl alcohol is highly flammable and a dangerous fire hazard when exposed to heat and/or flames. This product is a moderate fire hazard and explosion hazard when exposed to heat and/or flame.

Upper Flammable Limit (UFL): 18%

Lower Flammable Limit (LFL): 3.5%

Method Used: Method: DIN 51755

Flash Point: 71° F

Flammability Classification:

Auto Ignition: Not determined

Hazardous Combustion Products

On thermal decomposition: oxides of carbon.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

NFPA Ratings: **Health:** 2 **Fire:** 4 **Reactivity:** 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Contain and remove all sources of ignition. Wear appropriate protective gear. Collect using suitable absorbent if needed.

Clean-Up Procedures

Absorb spill with inert material. Shovel material into appropriate container for disposal. Flush small residuals to the drain for normal biological wastewater treatment.

Evacuation Procedures

Treat as moderate fire and explosion hazard.

Special Procedures

Caution: Flammable material. Store in an appropriate hazardous materials storage facility.

Material Safety Data Sheet

Product Name: STOKO Refresh[®] IHS Spray 4 in 1 System

MSDS ID: SK-200

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid eye contact and prolonged inhalation of vapors. Avoid prolonged contact with sensitive skin. Do not ingest.

Storage Procedures

Keep away from sources of ignition, protect from sunlight and excessive heat.

*** Section 8 - Exposure Controls / Personal Protection ***

General Information

FDA regulated. For OSHA workplace hazards, investigate and read and understand component MSDS's before manufacturing.

A: Component Exposure Limits

Ethyl alcohol (64-17-5)

OSHA:	1000 ppm TWA; 1900 mg/m3 TWA
ACGIH:	1000 ppm TWA

Engineering Controls

None required for intended use.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Avoid eye contact.

Personal Protective Equipment: Skin

Avoid prolonged contact with sensitive skin.

Personal Protective Equipment: Respiratory

Avoid prolonged inhalation of vapors.

Personal Protective Equipment: General

Obey reasonable safety precautions and practice good housekeeping.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Clear, colorless	Odor: of alcohol
Physical State: Liquid	pH: Not Established
Vapor Pressure: Ethanol comp. 40 mm Hg	Vapor Density: 1.6 (Air = 1)
Boiling Point: As Ethanol : 78.5° C	Melting Point: Not Established
Solubility (H2O): Not Established	Specific Gravity: ~0.889 g/cm ³
	Flash Point: 71°F (Method DIN 755)

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under usual application conditions.

Chemical Stability: Conditions to Avoid

None.

Incompatibility

Oxidizers, including chlorine bleach and hydrogen peroxide. Acids, platinum and silver.

Hazardous Decomposition

On thermal decomposition oxides of carbon.

Material Safety Data Sheet

Product Name: STOKO Refresh® IHS Spray 4 in 1 System

MSDS ID: SK-200

Hazardous Polymerization

Hazardous polymerization will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

Ethyl alcohol is irritating to the eyes, nose and respiratory system at very high vapor concentrations. Repeated ingestion of ethyl alcohol may result in liver damage.

Based on knowledge of the properties of the components, adverse effects on human health are not to be expected in normal use. In tests on humans as well as in normal short-term use, the product has proven to be compatible to the skin.

B: Acute Toxicity-LD50/LC50

Ethyl alcohol (64-17-5)

LD50: Inhalation LC50 Rat: 124.7 mg/L/4H; Oral LD50 Rat: 1501 mg/kg

Carcinogenicity

A: General Product Information

Ingestion may cause birth defects (teratogen).

B: Component Carcinogenicity

Ethyl alcohol (64-17-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Other Toxicological Information

None.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

See component information.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethyl alcohol (64-17-5)

96 Hr LC50 rainbow trout (30 days old): 12900 mg/L (flow-through); 24 Hr LC50 fingerling trout: 11200 mg/L; 96 Hr LC50 fathead minnow: 14200 mg/L (flow-through)

Environmental Fate

No information available for the product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

This material is a hazardous waste by the EPA definition of flammability.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Material Safety Data Sheet

Product Name: STOKO Refresh[®] IHS Spray 4 in 1 System

MSDS ID: SK-200

*** Section 14 - Transportation Information ***

US Department of Transportation (DOT)

DOT Shipping Name: "Consumer Commodity", ORM-D

Additional Information: This product is transport regulated as "Consumer Commodity", ORM-D with a package size limitation maximum of 1.0 liter.

IATA air transport (US and International)

IATA Shipping Name: "Consumer Commodity", ORM-D

Additional Information: This product is IATA (air) regulated as a "Consumer Commodity", ORM-D with a package size limitation of 0.5 liters.

Larger quantities

DOT, IMDG and IATA (Air) transport proper shipping name & nomenclature:

Ethanol (Ethyl Alcohol), 3, UN 1170, II

DOT hazardous label, FLAMMABLE

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: Clean Air Act

No information is available.

B: Component Analysis

No information is available.

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Ethanol (ethyl alcohol)	64-17-5	Yes	No	Yes	Yes	Yes	Yes

Component Analysis - WHMIS IDL

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Ethyl alcohol	64-17-5	0.1 %

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Ethanol (ethyl alcohol)	64-17-5	Yes	DSL	EINECS

Material Safety Data Sheet

Product Name: STOKO Refresh[®] IHS Spray 4 in 1 System

MSDS ID: SK-200

*** Section 16 - Other Information ***

Other Information

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

MSDS History

This is a new MSDS. Section's 2 & 3 reflect newly proposed August, 2004 ANSI Standards format recommendations for 2007 implementation.

11-20-2008: Reviewed and re-issued. No content changes.

Contact: Product Compliance Officer

Contact Phone: (800) 242-2271

This is the end of MSDS # : SK-200

Battery Powered Buffer Maintenance Log

Do check list every time you use the buffer

Date	Person	Daily filter vac	Remove Pad /Raise pad holder	Wash outside Buffer	Check battery	Wash filter	Comments

Take pad off and raise pad holder after each use. Wash filter & outside of machine weekly. Check batteries weekly. Vacuums filter after each use.