

MATERIAL SAFETY DATA SHEET

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1.) PRODUCT IDENTIFICATION

PRODUCT IDENTIFICATION: SHEERSHIELD 24 HAND SANITIZER
CHEMICAL FAMILY: AQUEOUS SOLUTION
CHEMICAL NAME: AQUEOUS SANITIZING SOLUTION

2.) PRODUCT COMPONENTS

APPROX. ACGIH OSHA UNITS
PRODUCT COMPOSITION % TLV PEL
ETHYL ALCOHOL <20 NA 1000 ppm
WATER >75 NA NA
PROPRIETARY INGREDIENTS <5 NA NA

FORMULATION:
THIS PRODUCT CONTAINS TOXIC CHEMICAL(S) LISTED BELOW WHICH IS (ARE) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. ETHYL ALCOHOL.

3.) PHYSICAL DATA

PRODUCT INFORMATION
BOILING POINT (°C) : 78-100 % VOLATILE BY VOLUME : <18
VAPOR PRESSURE (25°C) : NA EVAPORATION RATE : <1
VAPOR DENSITY (AIR=1) : >1 (BUTYL ACETATE : =1)
FREEZING POINT (°C) : -5 SPECIFIC GRAVITY : 0.9
MELTING POINT : NA (WATER=1)
PHYSICAL STATE : LIQUID
ODOUR : FRESH & CLEAN SCENT
COLOUR : CLEAR
SOLUBILITY IN WATER : SOLUBLE

4.) FIRE AND EXPLOSION DATA

FLASH POINT: >120°F (WILL NOT PROPOGATE FLAME)
FLAMMABLE LIMITS IN AIR (%): N/A
EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: N/A

5.) REACTIVITY DATA

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE,
CARBON DIOXIDE
INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING MATERIALS
CAN CAUSE A REACTION, ANIONIC MATERIALS.
CONDITIONS TO AVOID: HEAT, FREEZING

6.) HEALTH HAZARD DATA

ACUTE SIGNS/EFFECTS OF OVER-EXPOSURE:
INGESTION: MODERATELY TOXIC, CONTAINS DENATURED ALCOHOL,
CANNOT BE MADE NON POISONOUS
SKIN CONTACT: NO UNTOWARD EFFECTS
INHALATION: NO UNTOWARD EFFECTS
EYE CONTACT: IRRITANT; DIRECT CONTACT MAY BURN EYES WITH
POSSIBLE PERMANENT INJURY ON PROLONGED OR REPEATED EXPOSURE
MEDICAL CONDITIONS AGGRAVATED: UNKNOWN
CHRONIC EFFECT OF OVEREXPOSURE: UNKNOWN
EMERGENCY AND FIRST AID PROCEDURES:



INGESTION: IF SWALLOWED INDUCE VOMITING WHILE HOLDING HEAD BELOW HIPS; NEVER GIVE ANYTHING TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION
SKIN: NO UNTOWARD EFFECTS
INHALATION: NO UNTOWARD EFFECTS
EYES: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

PRODUCT INFORMATION
TOXICITY: ACUTE ORAL RAT LD50: UNKNOWN
ACUTE DERMAL RABBIT LD50: UNKNOWN
ACUTE INHALATION RAT LCLO: UNKNOWN
AMES TEST: UNKNOWN
PRINCIPAL ROUTES OF EXPOSURE: ORAL / EYES

7.) SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS
PROTECTIVE GLOVES: NOT REQUIRED
EYE AND FACE PROTECTION: SAFETY GLASSES; MONOGOGGLES
OTHER PROTECTIVE EQUIPMENT: WEAR EYE PROTECTION AND PROTECTIVE CLOTHING
VENTILATION: LOCAL EXHAUST RECOMMENDED

8.) SPILL, LEAK AND DISPOSAL PROCEDURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
1. WIPE, SOAK UP IN AN INERT MATERIAL AND PUT IN A CONTAINER FOR DISPOSAL.
2. WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION. WARN OTHER WORKERS OF SPILL.
DISPOSAL METHOD: DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

9.) SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
1. STORE UPRIGHT IN A COOL PLACE (33-100°F)
2. KEEP CONTAINER CLOSED WHEN NOT IN USE
3. AVOID CONTACT WITH EYES
ENGINEERING CONTROLS: EXHAUST VENTILATION, SHOWERS & EYEWASH STATIONS, USE IN A VENTILATED AREA
OTHER PRECAUTIONS: NONE

10.) SHIPPING AND REGULATORY CLASSIFICATION DATA

DOT SHIPPING NAME : NONE
DOT HAZARD CLASS : NONE
DOT LABEL(S) : NONE
UN/NA NUMBER : NONE

PLACARDS : NONE
EXPORT : NA
NFPA/HMIS CLASSIFICATION: FLAMMABILITY 1, REACTIVITY 0, HEALTH 1
ADDITIONAL INFORMATION:
THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE RECOMMENDED HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTENT OF THE INTENDED USE.



SheerShield

ANTIMICROBIAL HAND WIPES

**Pure Protection.
Destroys. Defends. Prevents.**



ELIMINATES 99.99% OF
BACTERIA, VIRUSES & FUNGUS
FORMS A 24 HR ANTIMICROBIAL BARRIER



MORE THAN A SANITIZER.
A revolutionary,
breakthrough advancement
in germ eradication
and protection.



SheerShield: a revolutionary advancement in managing and protecting the health of adults and children.

Germ, also called microbes or micro-organisms, are living cells that are too small to be seen with the naked eye. These micro-organisms, known as bacteria, fungus, and viruses are responsible for a large majority of the illnesses and disease found in humans. Our hands are responsible for as much as 80% of the transfer of these pathogens. All conventional hand sanitizers have to get inside the micro-organism in order to kill them. A chemical agent, such as alcohol or BAC, will act like a poison invading any nearby cells causing the micro-organism to die. This method is effective, but only for a matter of seconds. The poison then evaporates away and leaves your hands vulnerable.

Sheer Shield with **AMOSIL•Q** is an entirely new kind of "clean". It is the world's first and only hand sanitizer that offers instant disinfection, and 24 hours of continuous protection against germs. **AMOSIL•Q** is a patented antimicrobial barrier that safely kills germs by tearing them apart upon contact. Sheer Shield with **AMOSIL•Q** mists on wet and dries to form a uniform layer of microscopic "spikes" that are deadly to any micro-organism. Germs are electrostatically attracted to the Sheer Shield with **AMOSIL•Q**'s spiked surface. The **AMOSIL•Q** molecule then draws the microbe down to its core where the germ is forced to implode (lysis) and dies. Sheer Shield with **AMOSIL•Q** remains active through as many as ten hand washings. It is completely safe on human skin and does not dry the skin out like other sanitizers. It is non-toxic, non-flammable and completely safe for the environment.



SheerShield: Hard line defense with a soft touch

Advantages

- Assembles a safe and protective antimicrobial barrier on the skin.
- The Amosil Q molecule will not harm human or animal cells
- Effective against bacteria, fungus, and viruses
- Instantly sanitizes skin and nails on contact
- Tears germs apart instead of using harsh poisons that can leech off
- Adheres to the skin and is effective for 24 hours
- Antimicrobial barrier remains active through 10 hand washings
- Moisturizes the skin and prevents drying, redness, and chapping

Benefits

- Patented technology provides the first and only antimicrobial barrier for the skin
- Provides unmatched and long lasting protection against germs
- Puts an end to skin to skin transfer of germs
- Easy, clean, and quick spray application
- Gentle, and moisturizing on your skin
- Colorless liquid that is invisible on application and will not stain skin or clothing
- Non flammable and non toxic

A Partial List of Pathogens Destroyed or Inactivated By SheerShield:

Gram Positive bacteria

Bacillus sp. (vegetative cell)
 Bacillus subtilis
 Clostridium difficile
 Corynebacterium diphtheriae
 Enterococcus (incl. VRE)
 Listeria monocytogenes
 Micrococcus
 Mycobacterium tuberculosis
 Mycobacterium smegmatis
 Propionibacterium acnes
 Staphylococcus aureus
 Staphylococcus aureus (MRSA)
 Staphylococcus epidermis
 Streptococcus faecalis
 Streptococcus mutans
 Streptococcus pneumonia
 Streptococcus pyogenes

Gram Negative Bacteria

Actinobacter aerogenes
 Actinobacter calcoaceticus
 Aerobacter aerogenes
 Aeromonas hydrophilia
 Citrobacter deversus
 Citrobacter freundii
 Enterobacter aerogenes
 Enterobacter agglomerans
 Enterobacter cloacae
 Enterococcus
 Escherichia coli
 Klebsiella oxytoca

Klebsiella pneumoniae
 Klebsiella terrigena
 Legionella pneumophila
 Morganeella morgani

Mycobacterium tuberculosis
 Proteus mirabilis
 Proteus vulgaris
 Pseudomonas aeruginosa
 Pseudomonas fluorescens
 Pseudomonas pulida
 Salmonella cholerae suis
 Salmonella typhimurium
 Salmonella typhosa
 Serratia liquifaciens
 Serratia marcescens
 Treponema hyodysenteriae
 Xanthomonas campestris

Viruses

Adenovirus Type II & IV
 Bovine Adenovirus Type I & IV
 Feline pneumonitis
 Herpes simplex Type I
 Herpes simplex Type II
 HIV-1
 Influenza A2 (Aichi)
 Influenza A2 (Asian)
 Influenza B
 Mumps
 Parainfluenza (Sendai)
 Rous sarcoma
 Reovirus Type I

Simian Virus 40
 Vaccinia
 MS2
 PRD1

Fungi, Algae, Mold, Yeast, Spores

Alterania alternate
 Aphanizomenon
 Clostridium difficile
 Aspergillus flares
 Aspergillus flavus
 Aspergillus niger
 Aspergillus sydowi
 Aspergillus terreus
 Aspergillus versicolor
 Aspergillus verrucaria

Anabaena cylindrica
 Aureobasidium pullans
 Candida albicans
 Candida pseudotropicalis
 Cephalascus fragans
 Chaetomium globsum
 Chlorophyta protococcus
 Chlorophyta selenastrum
 Chlorophyta
 Chrysophyta
 Chlorella vulgaris
 Cladoporium cladosporioides
 Cyanophyta anabaena
 Cyanophyta oscillatoria
 Cyanophyta (blue-green)

Dreschlera australiensis

Epidermophyton
 Gliomastix cerealis
 Gloeophyllum trabeum
 Gonium
 Microsporium
 Microsporium audouinii
 Monilia grisea
 Oscillatoria
 Penicillium chrysogenum
 Penicillium commune
 Penicillium funiculosum
 Penicillium pinophilum
 Penicillium variable
 Phoma fimeti
 Pithomyces chartarum
 Poria placenta
 Pullularia pullans
 Scenedesmus
 Saccharomyces cerevisiac
 Scolecobasidium humicola
 Selenastrum gracile
 Selenastrum sp.
 Trichoderma viride
 Trichophyton interdigital
 Trichophyton maidson
 Trichophyton mentagrophytes
 Trichophyton sp.

Protozoa Parasites

Cryptosporidium parvum

MICROBIAL REDUCTION OVER 24 HOURS AFTER ONE APPLICATION OF SHEERSHIELD



*Percentages accurate to within 0.1%