



# PRODUCT SALES SHEET

**9301-001**

**Five Star San-A-Safe™**

## Environmental Solutions



### Description

- The “all-Natural” sanitizing solution based on Phytology Technology.
- Results in only 60 seconds of contact time.
- A powerful cleaning, deodorizing and sanitizing performance.
- Approved as a non-food sanitizer for non-porous, hard surfaces.
- Rapidly kills a broad spectrum of gram-positive and gram-negative bacteria.
- Strong residual effect – continues to work for days after application.
- Not affected by presence of organic material.
- Safe on all surfaces and equipment.
- Bio-based, all-natural and biodegradable.
- EPA Registered 81857-1.

### Technology Profile

Phytology is a revolutionary technology that relies on using bioflavonoids and plant extracts that create a synergistic reaction and, when combined, produce extremely powerful cleaning agents. Until recently, hazardous cleaning chemicals were considered to be the answer to cleaning and sanitation problems. Phytology Technology has been incorporated into state-of-the-art products that naturally eliminate harmful bacteria.

### Efficacy Profile

Bacteria	% Kill in 60 Seconds
Staphylococcus aureus	99.99
Streptococcus faecalis	99.99
Salmonella choleraesius	99.99
Klebsiella pneumoniae	99.99
Escherichia coli	99.99
Pseudomonas aeruginosa	99.99

### Technical Information

Usage	Dilution Ratio	1:32
Physical Properties	Appearance	Liquid
	Color	Amber
	Fragrance	None
	pH	5
	Shelf Life	Minimum 1 Year
Primary Packaging	9301-001	(12) 32oz./946 ml.

### Advantages

Until recently, hazardous cleaning agents were considered to be the answer to cleaning and sanitation problems.

Unlike the conventional sanitizers, San-A-Safe™ is not affected by organic material and has excellent stability. San-A-Safe™ is a contact sanitizer that breaks down the biofilm of bacteria allowing the active ingredients to penetrate the cell wall of the pathogen thereby killing the cell. Most other sanitizers kill the cells by toxic poisoning which leaves residues on surfaces that must be rinsed thereby negating the ongoing efficacy of these products.

San-A-Safe™ works hours after chlorine-based product loose their effectiveness. Unlike conventional sanitizers, bacteria cannot build-up a resistance through mutation due to the unique method in which it kills.

San-A-Safe™ is an all-natural, bio-based hard surface sanitizer. It is non-toxic, odorless and colorless.

### Applications

#### Spray/Fog Application:

Turn nozzle on and spray. Spray soiled surface until completely covered. Let stand 1 minute. Wipe with damp cloth.

#### Liquid Applications:

Apply onto surface. Let stand 1 minute. Wipe with cloth for a shiny, clean surface. For highly soiled areas, repeat procedure.

Bioremediation Inc.  
P.O. Box 6129 South Bend In 41667  
888-242-2898

# San-a-Safe™

## Material Safety Data Sheet

BIOREMEDIATION, INC.  
CORPORATE: 888-242-2898  
PO BOX 6129  
South Bend, IN 41667

CHEMTREC: 800-424-9300  
HAZARD RATING  
1= Slight  
2= Moderate  
3= High  
4= Extreme  
0= Insignificant

DATE PREPARED: 6/8/04  
DATE REVISED: 6/8/04  
DATE OF ORIGINATION: 11/12/98

HEALTH	1
FIRE	0
REACTIVITY	0
P.P.E	B

### I. PRODUCT IDENTIFICATION:

**San-a-Safe™**  
COMMON NAME: CLEANING COMPOUND  
GENERIC NAME: CLEANER  
CHEMICAL: MIXTURE

### II. HAZARDOUS INGREDIENTS:

Ingredients	CAS	%	OSHA PEL	ACGIH TLV
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DOES NOT CONTAIN ANY HAZARDOUS INGREDIENTS

### III. PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT:	212	APPEARANCE:	AMBER
SPECIFIC GRAVITY:	1.0031	FORM:	LIQUID
MELTING POINT:	N/D	ODOR:	BLAND
EVAPORATION RATE:	N/D	VAPOR DENSITY:	N/D
SOLUBILITY (H2O, 25C):	Soluble	pH:	5
VOLATIZES CONTENT:	0	VOC (g/L)	0

### IV. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: DEGREES More than 300F  
LEL: N/D  
UEL: N/D  
Autoignition Temperature: N/D  
Extinguishing Media: Product is water-based and will not support flames.  
Unusual Fire/Explosion Hazards: Closed containers exposed to heat may rupture due to pressure buildup.  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, hydrocarbons, steam.

### V. REACTIVITY:

STABILITY: Stable  
CONDITIONS TO AVOID: None known

### VI. HEALTH HAZARDS:

#### ROUTES AND INDICATIONS OF EXPOSURE

EYES: May cause irritation to eyes.  
SKIN: Good industrial hygiene recommended.  
INHALATION: N/A  
INGESTION: May cause irritation.  
TOXICITY DATA: None as listed by OSHA, NTP, IARC or EPA

#### EMERGENCY FIRST AID:

EYES: Flush eyes for fifteen minutes with water.  
SKIN: Wash exposed areas with soap and water.  
INHALATION: Remove victim to fresh air or oxygen supply. Seek medical attention if breathing difficulty persists.  
INGESTION: If conscious, give victim two glasses of water to dilute ingested material. Do not induce vomiting.

### VII. SPILL, DISPOSAL PROCEDURES AND PRECAUTIONS:

HANDLING: Keep closed when not in use. Store at room temperature. Prevent product from freezing. Follow MSDS and Label warnings even after package is empty.  
Material Spillage: Contain, retrieve spilled materials (absorb, pump, vacuum)  
WASTE DISPOSAL: This material is NOT defined as hazardous by the Resource Conservation and Recovery Act. It is the product users responsibility to determine at the time of disposal, whether a material containing the product or derived form the product should be classified as a hazardous waste. (40 FR 261020-40). Spill and releases of this material are not reportable under S.A.R.A. (III) Sec. 313.

### VIII. PERSONAL PROTECTIVE EQUIPMENT (P.P.E.):

PROTECTIVE EQUIPMENT: Wear safety glasses and gloves.  
RESPIRATORY PROTECTION: General ventilation recommended.  
ENGINEERING CONTROLS: Keep containers closed when not in use. Do not handle or store near strong oxidants.  
PERSONAL HYGIENE: Cleanse skin thoroughly after contact.

### IX. REGULATORY INFORMATION:

D.O.T. SHIPPING NAME: NON-REGULATED  
D.O.T. HAZARD CLASSIFICATION: N/A  
S.A.R.A. III Sec. 311 & 312: N/A  
S.A.R.A. III Sec. 313: NOT covered under Sara 313  
R.C.R.A.: NO  
TSCA Registry: YES

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