

Material Safety Data Sheet

RED Z™

I. HAZARDOUS INGREDIENTS

	Percent (Wt.)	Exposure limits (ppm)		*Other Limits Recommended	CAS#
		OSHA PEL / STEL	ACGIH / TLV - TWA		
• Sodium dichloro-s-triazinetrione (Sodium dichloroisocyanurate)	< 3	None Established	None Established		2893-78-9
• Superabsorbent polymer	> 97	-----	-----	0.05 mg/m ³	

* Recommended Industrial Hygiene Guideline for respirable dust of particle size < 10µm.

II. PHYSICAL & CHEMICAL CHARACTERISTICS

- Appearance: granular solid
- Odor: slight chlorine
- Color: off white
- Melting point (°C): > 250 (partial to full decomposition)
- Solubility in water @ 25°C: < 3 %
- pH: N/A
- Specific Gravity (H₂O=1): -0.9291

III. FIRE & EXPLOSION DATA

- Flash point (TOC/TCC): N/A
- Flammable Limits: UEL - N/A LEL - N/A
- Auto-ignition temperature: N/A
- Unusual fire and explosion hazards: Spilled material swells and becomes extremely slippery when wet. Use standard safety precautions for finely divided powders.
- Special fire fighting procedures: Firefighters should wear full protective clothing and self-contained breathing apparatus (SCBA).
- Extinguishing media: Use water. Do not use ABC or other dry chemical extinguishers since there is the potential for a hazardous reaction.

IV. REACTIVITY

- Stability: Stable.
- Conditions to avoid: This material contains a strong oxidizing agent. Avoid contact with strong reducing compounds.
- Incompatibility: Inorganic reducing compounds, alkalis.
- Hazardous decomposition products: Chlorine-containing gases may be produced.
- Hazardous polymerization: Will not occur.

V. HEALTH HAZARDS

HMIS Rating: Health 2 Flammability 0 Reactivity 1

Routes of Entry:

Eyes: no **Skin:** yes **Ingestion:** no **Inhalation:** yes

- **Symptoms of Exposure:** May cause moderate eye irritation. May cause moderate skin irritation if not promptly removed. Ingested material may cause burning of mouth, throat and esophagus, abdominal distress and moderate irritation. Breathing of dust or fumes may cause throat and respiratory tract irritation.
- **Conditions Generally Aggravated:** none known
- **Emergency First Aid Procedures:** (as described below)
 - Eyes:** Thoroughly flush eyes with large amounts of water for at least 15 minutes, immediately after contact. Consult medical personnel.
 - Skin:** Immediately brush off any excess material and flush with large amounts of water. If irritation persists, consult medical personnel.
 - Ingested:** Drink large amounts of water. Do not induce vomiting. Get medical attention immediately.
 - Inhaled:** Remove to fresh air; get medical attention if required.

VI. HANDLING & STORAGE

Keep container(s) tightly sealed when not in use. Store in a cool, dry area; avoid exposure to sunlight and high humidity. Special precautions required; do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. In cases of accidental spills, provide adequate ventilation; avoid generating dust. Clean as soon as possible. Avoid using any floor sweeping compounds as fuming, fire and/or explosion may result. Using clean, dedicated equipment, sweep and scoop all spilled material and place into a clean, dry container for disposal. Do not close disposal containers containing wet or damp material. They should be left open to disperse any chloride gas that may form.

VII. SPECIAL PROTECTION & CONTROL

- **Respiratory Protection:** Use NIOSH/MSHA approved or equivalent. Ventilated respirator with P3 filter cartridge recommended if respirable dust (particle size <10µm) exceeds 0.05 mg/m³.
- **Ventilation:** Adequate.
- **Eye Protection:** Safety goggles.
- **Gloves:** Chemical resistant.

VIII. OTHER INFORMATION

- **D.O.T. Shipping Information:** Oxidizing solid, n.o.s. (Dichloroisocyanuric acid salts), 5.1, UN1479, PG III
- **Storage/Transport Temperature:** Ambient
- **Storage/Transport Pressure:** Atmospheric

Material Safety Data Sheet

p.a.w.s.TM
Personal Antimicrobial Wipe

I. HAZARDOUS INGREDIENTS

	Percent	Exposure limits (ppm)		CAS#
		OSHA PEL / STEL	ACGIH / TLV - TWA	
• Ethyl alcohol	< 50	1000 (STEL)	1000 (TLV)	64-17-5
• 2,6-Dimethyl-4-Hydroxychlorobenzene	≥ 0.5	None Established	None Established	88-04-0

II. PHYSICAL & CHEMICAL CHARACTERISTICS

- Appearance: premoistened towelette
- Color: Hazed clear/white
- Odor: mild fragrance/alcoholic
- Boiling point (°C): N/A
- pH: 3.8 - 6.4
- Specific Gravity @ 20°C: 0.8328 - 1.0131
- Vapor density (Air=1): N/A
- Vapor pressure: N/A
- Water Solubility: slight

III. FIRE & EXPLOSION DATA

- Flash point (TOC): 97°F (36°C)
- Flammable Limits (Lowest Flashing Component): UEL - 19 LEL - 3.3
- Auto-ignition temperature: N/A
- Unusual fire and explosion hazards: Concentrated vapor may be flammable.
- Special fire fighting procedures: Follow NIOSH Recommended Guidelines for Alcohol Fires.
- Extinguishing media: Use water spray, carbon dioxide, or dry chemical.

IV. REACTIVITY

- Stability: Stable.
- Conditions to avoid: High temperatures and other sources of ignition.
- Incompatibility: Oxidizing agents, ignitable sources.
- Hazardous decomposition products: Thermal decomposition may emit typical products of combustion.
- Hazardous polymerization: Will not occur.

V. HEALTH HAZARDS

HMS Rating: Health 0 Flammability 3 Reactivity 0

p.a.w.s. Towelette

Effective: July 17, 1997

Revision: 6

Routes of Entry:

Eyes: yes **Skin:** yes **Ingestion:** no **Inhalation:** yes

- **Symptoms of Exposure:** May cause moderate eye irritation. Small amounts swallowed incidental to normal handling are not likely to cause injury, swallowing larger amounts may cause injury. Brief (minutes) inhalation will not cause adverse effects, although, constant inhalation may cause irritation to upper respiratory tract.
- **Conditions Generally Aggravated:** none known.
- **Emergency First Aid Procedures:** (as described below)

Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes. Consult medical personnel.

Ingested: Do not induce vomiting unless directed by medical personnel.

Inhaled: Remove to fresh air; get medical attention if required.

VI. HANDLING & STORAGE

Keep container(s) tightly sealed when not in use. Store in a cool, dry area away from any sources of ignition. In cases of accidental spills, remove all sources of ignition. Provide adequate ventilation. Wipe up spills, then rinse with water.

VII. SPECIAL PROTECTION & CONTROL

- **Respiratory Protection:** Ordinarily, none required.
- **Ventilation:** Adequate.
- **Eye Protection:** Ordinarily, none required.
- **Gloves:** Ordinarily, none required.

VIII. OTHER INFORMATION

- **D.O.T. Shipping Information:** Ethanol solution, 3, UN1170, PG II
- **Storage/Transport Temperature:** Ambient
- **Storage/Transport Pressure:** Atmospheric

Material Safety Data Sheet

SaniZide™
Germicidal Solution

I. HAZARDOUS INGREDIENTS

	Percent	Exposure limits (ppm)		Other Recommended Limits	CAS#
		OSHA PEL / STEL	ACGIH / TLV - TWA		
• Isopropyl alcohol	8.0	400 (PEL)	400 (TLV)	-----	67-63-0
• Alkyl-dimethyl-benzyl-ammonium chloride	0.14	None Established	None Established	LD ₅₀ = 0.55ml/kg	68391-01-5
• Alkyl-dimethyl-ethyl benzyl-ammonium chloride	0.14	None Established	None Established	LD ₅₀ = 0.55ml/kg	68956-79-6

II. PHYSICAL & CHEMICAL CHARACTERISTICS

- Appearance: liquid
- Color: colorless
- Odor: alcoholic
- Boiling point (°C): 92.0
- Specific Gravity (H₂O=1): 0.999
- Vapor density (Air=1): < 1
- Vapor pressure (mmHg): N/A
- Evap. Rate (n-Butyl acetate=1): N/A
- Water Solubility: complete

III. FIRE & EXPLOSION DATA

- Flash point (TOC): 124°F (51°C)
- Flammable Limits (Lowest Flashing Component): UEL - 12 LEL - 2.0
- Auto-ignition temperature: N/A
- Unusual fire and explosion hazards: Vapors can be heavier than air. Never use torch or other sources of flame near product.
- Special fire fighting procedures: Follow NIOSH Recommended Guidelines for Alcohol Fires.
- Extinguishing media: Use alcohol foam, carbon dioxide, or dry chemical.

IV. REACTIVITY

- Stability: Stable.
- Conditions to avoid: Strong oxidizing agents.
- Incompatibility: none known.
- Hazardous decomposition products: Incomplete combustion will generate oxides of carbon.
- Hazardous polymerization: Will not occur.

V. HEALTH HAZARDS

HMIS Rating: Health 1 Flammability 2 Reactivity 0 Personal Protection A

Primary Routes of Entry:

Eyes: yes **Skin:** yes **Ingestion:** yes **Inhalation:** yes

- **Health Effects (Acute and Chronic):** Cause temporary eye irritation. If ingested, can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- **Signs and Symptoms of Exposure:** Prolonged or repeated contact may cause skin irritation to highly sensitive skin.
- **Conditions Generally Aggravated:** Dermatitis
- **Emergency First Aid Procedures:** (as described below)

Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes. Consult medical personnel.

Skin: Wash thoroughly with soap and water. If irritation persists, consult medical personnel.

Ingested: Give 2 glasses milk or water. Induce vomiting. Get medical attention.

Inhaled: Remove to fresh air; get medical attention if required.

VI. HANDLING & STORAGE

Keep container(s) tightly sealed when not in use. Store in a cool, dry area away from any sources of ignition. In cases of accidental spills, provide adequate ventilation. Absorb spilled liquid with Vermiculite, floor absorbent or other material and transfer to hood. Dispose of in accordance with applicable local, state and federal regulations.

VII. SPECIAL PROTECTION & CONTROL

- **Respiratory Protection:** Ordinarily, none required.
- **Ventilation:** Adequate.
- **Eye Protection:** Wear safety glasses.
- **Gloves:** Ordinarily, none required.

VIII. OTHER INFORMATION

- **D.O.T. Shipping Information:** Alcohols, n.o.s. (Isopropanol), 3, UN1987, PG II
- **Storage/Transport Temperature:** Ambient
- **Storage/Transport Pressure:** Atmospheric