

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: CITRA-QUAT **PRODUCT I.D. NUMBER (PIN):** N.A.
PRODUCT NUMBER: NA **WHMIS CLASS:** D2B
PRODUCT USE: Concentrated quaternary disinfectant/ cleaner **DOT HAZARD CLASS:** Non-Hazardous
COMPANY:
P.B. GAST AND SONS CO., INC
355 COTTAGE GROVE S.E.
GRAND RAPIDS, MICHIGAN 49507 **DOT SHIPPING NAME:**
N.A.
EMERGENCY PHONE: 800-843-6174

H.M.I.S.

	HEALTH	HAZARD RATING
2	HEALTH	4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
0	FIRE	
0	REACTIVITY	
B	MAXIMUM PERSONAL PROTECTION	

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

ABBREVIATION KEY: N.A. - Not Applicable N.E. = Not Established N.D. = Not Determined

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	%	PEL	TLV	LD50	LC50
Water	7732-18-5	60-100	N.E.	N.E.	N.D.	N.D.
Quaternary ammonium chloride	5197-80-8	1-5	N.E.	N.E.	250mg/kg	86mg/l 1hr
Tetrasodium EDTA	64-02-8	1-5	N.E.	N.E.	4100mg/kg	N.D.
Nonionic surfactant	9016-45-9	1-5	N.E.	N.E.	N.D.	N.D.

This mixture does not contain components which 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.

SECTION 3 - PHYSICAL DATA

Color: Varied **Boiling Point:** 100°C (212°F) **Vapor Pressure:** <30 mm of Hg **pH:** 10.8 - 11.8 (Use Dil. 9.3 - 9.8)
Odor: Lemon **Freezing Point:** 0°C (32°F) **Vapor Density (Air=1):** <1 **1% pH:** N.A.
Physical State: Liquid **Water/Oil Distribution:** N.E. **Evaporation Rate (Water=1):** N.E. **Specific Gravity:** 1.04 gm/ml
Solubility in Water: Complete **Odor Threshold:** N.E. **VOC Content:** 0.0% **Weight per Gallon:** 8.67 lbs./gal.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: N.A. **Autoignition Temperature:** N.A. **Extinguishing Media:** Use dry chemical or CO2.
Flammable Limits: N.A. **LEL:** N.A. **UEL:** N.A. **Special Fire Fighting Procedures:** None.
Hazardous Combustion Products: N.A. **Unusual Fire and Explosion Hazards:** None.

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable. **Hazardous decomposition of By-Products:** None known.
Incompatibility (Materials to Avoid): None known. **Hazardous Polymerization:** Will not occur.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion. Inhalation. Eye contact. **Toxicologically Synergistic Products:** None known.
Sensitization: No. **Medical Conditions Aggravated by Exposure:** None known.
EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):
Eyes: May cause severe irritation, redness and possible corneal injury. **Carcinogenic Effects:** NO carcinogenic effect.
Skin: May cause irritation. **Mutagenic Effects:** NO mutagenic effect.
Ingestion: May cause gastrointestinal tract irritation and possible mucosal injury. **Teratogenic Effects:** NO teratogenic effect.
Inhalation: Prolonged exposure in poorly ventilated area may irritate nasal mucous membranes. **Reproductive Toxicity:** NO reproductive toxicity effect.

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None normally required with adequate ventilation. **Ventilation:** Local Exhaust: N.A. Mechanical: Acceptable
Protective Gloves: Rubber to protect sensitive skin. **Eye Protection:** Safety glasses if splashing is likely.
Protective Clothing and Equipment: As needed to prevent wetting of clothing. **Work and Hygienic Practices:** After handling, always wash hands thoroughly with soap and water.
Storage Requirements: Store in cool, dry area. Avoid contamination of food. Follow good housekeeping practices. **Other Requirements:** Keep out of reach of children.
Steps to be Taken if Material is Spilled or Released: Collect and reuse if possible. Absorb on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways.
Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities. Triple rinse container. Do not reuse empty container.

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

FIRST AID - NOTES TO PHYSICIAN:

Eyes: Flush with a large amount of water for 15 minutes holding eyelids open. Seek medical attention.
Skin: Wash with mild soap and water.
Ingestion: Give gelatin solution, egg whites or 2-3 large glasses of water. Seek medical attention.
Inhalation: Remove to fresh air and rest. In all cases if symptoms persist, seek medical attention.

Note to Physician: Probable mucosal damage may contraindicate the use of the gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

SECTION 9 - PREPARATION INFORMATION

Prepared By: Regulatory Affairs Department **Phone:** 616-245-0574, 800-968-4278 **Date of Preparation:** 5/21/2007.