

I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 2479

PRODUCT NAME: R21 DISINFECTANT CLEANER**USE:** Detergent Disinfectant**SUPPLIER:**JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** exempt**CHEMICAL FAMILY:** Alkali/surfactant**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Sodium metasilicate	0.5-1.5	006834-92-0	LD50 1153 mg/kg	oral/rat
Quaternary Ammonium Chloride Mixture	1-5	not available	LD50 366 mg/kg	oral/rat
Tetrasodium edta	1-5	000064-02-8	LD50 3200 mg/kg	oral/rat
Alcohol ethoxylate	1-5	068439-46-3	LD50 1378 mg/kg	oral/rat
Ethanol	0.1-1	000064-17-5	LD50 7060 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:**Gloves:** Natural Rubber, Neoprene or Nitrile**Eye:** safety glasses**Footwear:** Not required**Respiratory:** If mists are generated, use NIOSH approved mask.**Other:** Not required**SPECIAL HANDLING PROCEDURES AND EQUIPMENT:** Avoid eye and skin contact. Do not breathe mist or spray**VENTILATION REQUIREMENTS:** General ventilation**INCOMPATIBILITY (Material to Avoid):** Acids, anionic materials, strong oxidizing materials.**SPILL PROCEDURES:** Contain the spill. Do not allow the spilled product to go to drain. Mop up or soak up with absorbent clay for disposal**WASTE DISPOSAL:** Dispose of according to municipal, provincial, and federal regulations**STORAGE / SHIPPING REQUIREMENT:** Store in a cool dry area in a closed container. Avoid freezing.

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear green liquid; mild odour**S.G. / BULK DENSITY(g/cc):** 1.020**pH:** 12.6**VAPOUR PRESSURE (mmHg):** not available**VAPOUR DENSITY (air=1):** not available**ODOUR THRESHOLD:** not available**BOILING POINT:** approx 100°C**FREEZING POINT:** approx 0°C**PERCENT VOLATILE:** 88 %**SOLUBILITY IN WATER:** soluble**EVAPORATION RATE (water=1):** approx. 1

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:**EYES:** May cause severe irritation. May cause permanent damage if not treated promptly.**SKIN:** Repeated or prolonged contact may result in irritation.**INGESTION:** May cause severe irritation of the digestive tract.

INHALATION: Breathing spray or mist may cause respiratory irritation.	
LD50 (calculated): 6817 mg/kg	LC50 (calculated): not available
OTHER TOXIC EFFECTS: TLV - TWA (Ethanol): 1000 ppm	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: None known	
VI - FIRST AID MEASURES	
EYES:	Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately.
SKIN:	Flush affected area thoroughly with water. If irritation develops, contact a physician.
INGESTION:	Drink large volumes of water. Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a physician immediately.
INHALATION:	Remove patient to fresh air.
VII - FIRE AND EXPLOSION DATA	
FLAMMABLE: No	
FLASH POINT, °C: 149°C	AUTO IGNITION TEMPERATURE, °C: not applicable
EXTINGUISHING MEDIA: Water [x] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other []	
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus	
HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, ammonia, nitrogen oxides. Oxides of carbon, nitrogen.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: not applicable	
INCOMPATIBILITY (Material to Avoid) : Acids, anionic materials, strong oxidizing materials.	
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with anionic materials causes inactivation.	
REACTIVITY: Not dangerously reactive. Contact with acids generates heat. Contact with strong oxidizers generates heat.	
IX - MSDS PREPARATION	
SOURCES USED: RTECS, Raw Materials MSDS	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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