



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 2474

PRODUCT NAME: R91 ACID TUB & TILE CLEANER**USE:** Tub & Tile Cleaner**SUPPLIER:**JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** E**CHEMICAL FAMILY:** Mineral Acid**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Phosphoric acid	10-30	007664-38-2	LD50 1530 mg/kg	oral/rat
Hydroxyacetic acid	7-13	000079-14-1	LD50 1950 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:**Gloves:** 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):** alkaline and chlorinated materials, soft metals.**SPILL PROCEDURES:** Contain the spill. Do not allow the spilled product to go to drain. Neutralize with sodium bicarbonate, sodium carbonate or lime. Mop up or soak up with absorbent clay for disposal.**WASTE DISPOSAL:** Dispose according to municipal, provincial, and federal regulations.**STORAGE / SHIPPING REQUIREMENT:** Store in a cool dry area in a closed container.

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear purple liquid; slight cherry odour**S.G. / BULK DENSITY(g/cc):** 1.13**pH:** (concentrate): 1.7**VAPOUR PRESSURE (mmHg):** not applicable**VAPOUR DENSITY (air=1):** not applicable**ODOUR THRESHOLD:** not applicable**BOILING POINT:** approx. 100°C**FREEZING POINT:** not available**PERCENT VOLATILE:** 85%**SOLUBILITY IN WATER:** soluble**EVAPORATION RATE (water=1):** 1

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:**EYES:** Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly.**SKIN:** Corrosive. May cause severe irritation. May cause temporary or permanent damage if not treated promptly.**INGESTION:** Corrosive. May cause severe irritation of the digestive tract. May cause nausea, vomiting and diarrhea.**INHALATION:** Breathing spray or mist may cause severe respiratory irritation.**LD50 (calculated):** 5452 mg/kg**LC50 (calculated):** not applicable

OTHER TOXIC EFFECTS: TLV-TWA (phosphoric acid) 1 mg/m3; TLV-STEL (phosphoric acid) 3 mg/m3	
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:	If breathing difficulty occurs, remove patient to fresh air.
VII - FIRE AND EXPLOSION DATA	
FLAMMABLE: No	
FLASH POINT, °C: not applicable	AUTO IGNITION TEMPERATURE, °C: N/Ap
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: Oxides of carbon.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: Contact with soft metals.	
INCOMPATIBILITY (Material to Avoid) : Alkaline and chlorinated materials.	
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with alkali will generate heat. Contact with chlorinated materials will release chlorine gas. Contact with aluminum or zinc generates hydrogen gas.	
REACTIVITY: not dangerously reactive	
IX - MSDS PREPARATION	
SOURCES USED: RTECS, Supplier MSDS	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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