



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 2248

PRODUCT NAME: PRESOAK POWDER K7 PAK**USE:** Cutlery Presoak/Detarnisher**SUPPLIER:**JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** D2B E**CHEMICAL FAMILY:** Alkali/Enzyme**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Sodium metasilicate	3-7	006834-92-0	LD50 1153 mg/kg	oral/rat
Sodium carbonate	30-60	000497-19-8	LD50 4090 mg/kg	oral/rat
Alcohol ethoxylate	1-5	068002-97-1	LD50 2750 mg/kg	oral/rat
Sodium dodecylbenzene sulphonate	1-5	025155-30-0	LD50 1260 mg/kg	oral/rat
Proteinase	0.5-1.5	009014-01-1	LD50 3700 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:** NIOSH approved dust mask**Other:** not required**SPECIAL HANDLING PROCEDURES AND EQUIPMENT:**

Avoid breathing dust. Avoid eye and prolonged skin contact. Do not remove screen from capsule.

VENTILATION REQUIREMENTS: General ventilation**INCOMPATIBILITY (Material to Avoid):** acids**SPILL PROCEDURES:** Wear protective clothing. Sweep or scoop up material for disposal. Ensure adequate ventilation.**WASTE DISPOSAL:** Dispose according to municipal, provincial, and federal regulations.**STORAGE / SHIPPING REQUIREMENT:** Store in a cool dry area in a closed container. Avoid high humidity. Do not store above 30°C.

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Pale blue powder**S.G. / BULK DENSITY(g/cc):** 0.97 - 1.16**pH:** (1% solution): 11.5**VAPOUR PRESSURE (mmHg):** not applicable**VAPOUR DENSITY (air=1):** not applicable**ODOUR THRESHOLD:** not applicable**BOILING POINT:** not applicable**FREEZING POINT:** not applicable**PERCENT VOLATILE:** not applicable**SOLUBILITY IN WATER:** soluble**EVAPORATION RATE (water=1):** not applicable

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:**EYES:** May cause severe irritation. May cause permanent damage if not treated promptly.**SKIN:** May cause irritation.**INGESTION:** May cause severe irritation of the digestive tract. May cause temporary or permanent damage if not treated promptly.

INHALATION: Breathing dust may cause respiratory irritation. Repeated or prolonged exposure may cause respiratory sensitization and allergic response in hypersensitive individuals.	
LD50 (calculated): 5526 mg/kg	LC50 (calculated): not applicable
OTHER TOXIC EFFECTS: TLV (Sodium metasilicate): 2 mg/m3; TLV-STEL (Proteinase): 0.00006 mg/m3	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: Repeated or prolonged inhalation of dust may cause respiratory sensitization and allergic response in hypersensitive individuals.	
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. Get medical attention for any breathing difficulty.	
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, nitrogen, sulphur.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: high humidity; high storage temperatures	
INCOMPATIBILITY (Material to Avoid) : acids	
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with acid generates heat and liberates carbon dioxide.	
REACTIVITY: not dangerously reactive	
IX - MSDS PREPARATION	
SOURCES USED: RTECS	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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