



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 01032

PRODUCT NAME: PRECISION ADVANTAGE ULTRA**USE:** Machine Warewashing Detergent**SUPPLIER:**JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** D2B E**CHEMICAL FAMILY:** caustic alkali**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Sodium hydroxide	7-13	001310-73-2	LDLo 500 mg/kg	oral/rab
Sodium nitrilotriacetate	10-30	005064-31-3	LD50 1100 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:**Gloves:** Natural rubber, Neoprene or Nitrile **Eye:** safety goggles **Footwear:** not required**Respiratory:** If mists are generated, use NIOSH approved mask **Other:** rubber apron as required**SPECIAL HANDLING PROCEDURES AND EQUIPMENT:** Avoid eye and skin contact.**VENTILATION REQUIREMENTS:** General ventilation**INCOMPATIBILITY (Material to Avoid):** acids, aluminum, zinc**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. Wash spill area with large volumes of water.**WASTE DISPOSAL:** Dispose according to municipal, provincial, and federal regulations.**STORAGE / SHIPPING REQUIREMENT:** Store in a cool dry area in a closed container. UN3266

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear colourless liquid**S.G. / BULK DENSITY(g/cc):** 1.29**pH:** 13.5**VAPOUR PRESSURE (mmHg):** not available**VAPOUR DENSITY (air=1):** not available**ODOUR THRESHOLD:** not applicable**BOILING POINT:** approx. 100°C**FREEZING POINT:** approx. -10°C**PERCENT VOLATILE:** 65%**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 permanent damage if not treated promptly.**INHALATION:** Corrosive. Inhalation of spray or mist may cause severe respiratory irritation.**LD50 (calculated):** LD50 2305 mg/kg**LC50 (calculated):** not applicable

OTHER TOXIC EFFECTS: TLV-CL (Sodium hydroxide): 2 mg/m3	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:	This product contains NTA. In laboratory tests, rats and mice continuously fed highly exaggerated doses of NTA showed evidence of urinary tract (bladder and kidney) toxicity, including cancer; lower doses showed none of these toxic effects. By ACGIH guidelines, NTA would not be considered an occupational (human) carcinogen of any practical significance.
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.
EXPLOSIVE SENSITIVITY TO:	not applicable
VIII - REACTIVITY DATA	
STABILITY:	Stable [x] Unstable []
CONDITIONS TO AVOID:	not applicable
INCOMPATIBILITY (Material to Avoid) :	acids, aluminum, zinc
HAZARDOUS DECOMPOSITION PRODUCTS:	Heat released on contact with acids. Contact with aluminum or zinc generates hydrogen gas. Nitrogen oxides, carbon monoxide.
REACTIVITY:	not dangerously reactive
IX - MSDS PREPARATION	
SOURCES USED:	RTECS, ChemInfo
PREPARATION DATE:	April 15, 2003
PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200	
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