



I - PRODUCT IDENTIFICATION AND USE		MSDS ID: 39000
PRODUCT NAME: PRECISION ADVANTAGE METAL SAFE		
USE: Machine Warewashing Detergent		
SUPPLIER: JohnsonDiversey Canada, Inc. 2401 Bristol Circle Oakville Ontario, L6H 6P1, Canada	EMERGENCY PHONE: 1-800-668-7171	
WHMIS CLASSIFICATION: E CHEMICAL FAMILY: caustic alkali	TRADE NAME / SYNONYMS: not applicable CHEMICAL NAME: not applicable	
II - HAZARDOUS INGREDIENTS		
HAZARDOUS INGREDIENT	% w/w	CAS #
Potassium hydroxide	10-30	001310-58-3
Sodium silicate	7-13	001344-09-8
		LD50 / LC50
		oral/rat
		oral/rat
III - HANDLING AND DISPOSAL PROCEDURES		
PERSONAL PROTECTIVE EQUIPMENT:		
Gloves: Natural rubber, neoprene or nitrile	Eye: Safety goggles	Footwear: As required
Respiratory: Not normally required.	Other: Not normally required.	
SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye and skin contact. If mists are generated, use NIOSH approved mask.		
VENTILATION REQUIREMENTS: General ventilation		
INCOMPATIBILITY (Material to Avoid): Acids		
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, slightly yellow liquid		
S.G. / BULK DENSITY(g/cc): 1.34	pH: 13.0	
VAPOUR PRESSURE (mmHg): not available	VAPOUR DENSITY (air=1): not available	
ODOUR THRESHOLD: not applicable	BOILING POINT: approx. 100°C	
FREEZING POINT: not available	PERCENT VOLATILE: 68%	
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. May cause permanent damage if not treated promptly.		
LD50 (calculated): 2556 mg/kg	LC50 (calculated): not applicable	

OTHER TOXIC EFFECTS: TLV-CL (potassium hydroxide) 2 mg/m3; TLV (sodium silicate) 5 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: 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

EXPLOSIVE SENSITIVITY TO: not applicable

VIII - REACTIVITY DATA

STABILITY: Stable [x] Unstable []

CONDITIONS TO AVOID: not applicable

INCOMPATIBILITY (Material to Avoid) : acids

HAZARDOUS DECOMPOSITION PRODUCTS: Heat released on contact with acids.

REACTIVITY: not dangerously reactive

IX - MSDS PREPARATION

SOURCES USED: RTECS

PREPARED BY: JohnsonDiversey Canada. Inc.
Regulatory Department
Institutional Division
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