



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 3626

PRODUCT NAME: RAILWAY LIQUID 422

USE: Alkaline Spray Cleaner

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	5-10	001310-73-2	LDLo 500 mg/kg	oral/rab
Sodium silicate	10-30	001344-09-8	LD50 3300 mg/kg	oral/rat
Sodium nitrilotriacetate	1-5	005064-31-3	LD50 1100 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: natural rubber or neoprene

Eye: safety glasses

Footwear: not required

Respiratory: If mists are generated, use NIOSH approved mask

Other: rubber apron, face shield

SPECIAL HANDLING PROCEDURES AND EQUIPMENT:

Avoid eye and skin contact. Respiratory protection may be required to control irritation if RAILWAY LIQUID 422 is sprayed in enclosed, poorly ventilated area.

VENTILATION REQUIREMENTS: general ventilation

INCOMPATIBILITY (Material to Avoid): Acidic 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. 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. . . . UN1760

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Dark brown liquid

S.G. / BULK DENSITY(g/cc): 1.27

pH: (Concentrate): >13

VAPOUR PRESSURE (mmHg): not available

VAPOUR DENSITY (air=1): not available

ODOUR THRESHOLD: not available

BOILING POINT: not available

FREEZING POINT: not available

PERCENT VOLATILE: 65%

SOLUBILITY IN WATER: soluble

EVAPORATION RATE (water=1): not available

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.

INHALATION: Breathing mist or spray may cause respiratory irritation.

LD50 (calculated): 3335 mg/kg		LC50 (calculated): not available	
OTHER TOXIC EFFECTS: "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." Sodium hydroxide TWA 2 mg/m3; Sodium silicate TLV 5 mg/m3 manual			
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: not applicable		AUTO IGNITION TEMPERATURE, °C: N/App.	
EXTINGUISHING MEDIA: Water [X] Dry Chemical [X] Carbon Dioxide [X] Foam [X] Other []			
SPECIAL FIRE FIGHTING PROCEDURES: not required			
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) : Acidic materials			
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 Industrial Division Phone (905) 829-1200	
PREPARATION DATE: April 15, 2003			
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