



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 2497

PRODUCT NAME: R42 BRASS CLEANER METAL POLISH AND PROTECTOR**USE:** Polish**SUPPLIER:**JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** B3 D2B**CHEMICAL FAMILY:** Solvent/oil**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Mineral Spirits	15-40	064475-85-0	not available	
Ammonium Hydroxide	1-5	001336-21-6	LD50 350 mg/kg	oral/rat
Morpholine	1-5	000110-91-8	LD50 1050 mg/kg	oral/rat
Oleic acid	1-5	000112-80-1	LD50 230 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 applicable**SPECIAL HANDLING PROCEDURES AND EQUIPMENT:** Do not breathe mist or spray.**VENTILATION REQUIREMENTS:** general ventilation**INCOMPATIBILITY (Material to Avoid):** Strong acids, alkalis, cationics, bleach.**SPILL PROCEDURES:** Remove all sources of heat and ignition. Contain the spill. Do not allow the spilled product to go to drain. Mop up or soak up with absorbent clay for disposal**WASTE DISPOSAL:** Dispose according to municipal, provincial, and federal regulations.**STORAGE / SHIPPING REQUIREMENT:** Do not handle or store near an open flame. Store in a cool dry area in a closed container. Avoid freezing.

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: White opaque liquid, ammonia odour**S.G. / BULK DENSITY(g/cc):** 1.10**pH:** 9.6**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:** 85%**SOLUBILITY IN WATER:** miscible**EVAPORATION RATE (water=1):** not available

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:**EYES:** May cause severe irritation.**SKIN:** Repeated or prolonged contact may result in irritation.**INGESTION:** Harmful if swallowed.

INHALATION: Breathing spray or mist may cause respiratory irritation. May cause headache, drowsiness and dizziness.	
LD50 (calculated): not available	LC50 (calculated): not applicable
OTHER TOXIC EFFECTS: TLV-TWA (Ammonium Hydroxide): 35 ppm	
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.
SKIN:	Flush affected area thoroughly with soap and water. If irritation develops, contact a physician.
INGESTION:	Do not induce vomiting. Drink large volumes of water . Never give anything by mouth to an unconscious patient. Contact a physician immediately.
INHALATION:	Remove patient to fresh air. Get medical attention for any breathing difficulty.
VII - FIRE AND EXPLOSION DATA	
FLAMMABLE: Yes, combustible if heated.	
FLASH POINT, °C: 46°C	AUTO IGNITION TEMPERATURE, °C: n/a
EXTINGUISHING MEDIA: Water [x] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other []	
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus. Cool with water spray and remove source of ignition.	
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, nitrogen.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: high temperature	
INCOMPATIBILITY (Material to Avoid) : Strong acids, alkalis, cationics, bleach	
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon when heated.	
REACTIVITY: not dangerously reactive	
IX - MSDS PREPARATION	
SOURCES USED: MSDS, RTECS	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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