



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 06890

PRODUCT NAME: MBS-9

USE: Highly Acidic System Cleaner

SUPPLIER:

JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada

EMERGENCY PHONE:

1-800-668-7171

WHMIS CLASSIFICATION: D1A E

CHEMICAL FAMILY: mineral acid

TRADE NAME / SYNONYMS: not applicable

CHEMICAL NAME: not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Sulphuric acid	15-40	007664-93-9	LD50 2140 mg/kg	oral/rat
Phosphoric acid	7-13	007664-38-2	LD50 1530mg/kg	oral/rat
Linear alcohol ethoxylate	3-7	068439-46-3	LD50 1400 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: PVC

Eye: Safety goggles

Footwear: Rubber boots

Respiratory: NIOSH acid mist mask required in absence of adequate ventilation
Other: Rubber apron, face shield

SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Do not breathe mist, spray or vapours. If spraying, wear NIOSH approved respirator for acid mist. Avoid eye and skin contact.

VENTILATION REQUIREMENTS: Mechanical exhaust. Wear NIOSH respirator for acid mist.

INCOMPATIBILITY (Material to Avoid): Alkaline and chlorinated materials. Organic materials. Soft metals.

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. UN3264

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear, green liquid

S.G. / BULK DENSITY(g/cc): 1.25 ± 0.01

pH: (concentrate): 1.0

VAPOUR PRESSURE (mmHg): 17.5 @ 20°C

VAPOUR DENSITY (air=1): not applicable

ODOUR THRESHOLD: not available

BOILING POINT: 104°C

FREEZING POINT: not available

PERCENT VOLATILE: 60%

SOLUBILITY IN WATER: soluble

EVAPORATION RATE (water=1): not applicable

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 temporary or permanent damage if not treated promptly.

INHALATION: May cause irritation of respiratory tract.

LD50 (calculated): 4714 mg/kg		LC50 (calculated): Not available	
OTHER TOXIC EFFECTS: TLV-TWA 1 mg/m3 as Sulphuric Acid. IARC has classified "occupational exposure to strong acid mists containing sulphuric acid" as being carcinogenic to humans. The route of entry is inhalation of these mists resulting in respiratory (Laryngeal) cancers. There is no evidence that the liquid is in any way a carcinogen. Phosphoric Acid TLV-STEL 3 mg/m3, TWA 1 mg/m3; Sulfuric Acid TLV-TWA 1 mg/m3, STEL 3 mg/m3.			
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: Not available.			
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, sulphur and phosphorus.			
EXPLOSIVE SENSITIVITY TO: not applicable			
VIII - REACTIVITY DATA			
STABILITY: Stable [x] Unstable []			
CONDITIONS TO AVOID: not applicable.			
INCOMPATIBILITY (Material to Avoid) : Alkaline and chlorinated materials. Aluminum, brass, copper, iron, mild steel. Organic materials.			
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with chlorinated materials will release chlorine gas. Contact with alkali will generate heat. Contact with soft metals forms flammable hydrogen gas. Contact with organic materials will generate heat.			
REACTIVITY: not applicable.			
IX - MSDS PREPARATION			
SOURCES USED: RTECS, Industrial Chemicals Safety Manual.		PREPARED BY: JohnsonDiversey Canada. Inc. Regulatory Department Industrial Division Phone (905) 829-1200	
PREPARATION DATE: April 15, 2003			
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