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Office of
Laboratory
Security

MSDS

MATERIAL SAFETY DATA SHEET - INFECTIOUS SUBSTANCES**SECTION I - INFECTIOUS AGENT****NAME:** *Aeromonas hydrophila***SYNONYM OR CROSS REFERENCE:** Aeromonads**CHARACTERISTICS:** Gram negative small rods, polar flagella, facultatively anaerobic, exotoxins**SECTION II - HEALTH HAZARD****PATHOGENICITY:** Associated with gastroenteritis, wound infections (cellulitis), septicemia, ocular and respiratory tract infections, pneumonia and urinary tract infections; frequent pathogens for cold-blooded marine and freshwater amphibians and reptiles (red leg disease in frogs); also in birds**EPIDEMIOLOGY:** Worldwide; especially near freshwater sources; incidence of serious human disease is increasing and many isolates are probably misdiagnosed as coliforms**HOST RANGE:** Humans, amphibians, fish, reptiles, birds**INFECTIOUS DOSE:** Unknown**MODE OF TRANSMISSION:** Fecal-oral transmission; contact with contaminated water, food, soil, faeces; ingestion of contaminated fish or reptiles**INCUBATION PERIOD:** Not clearly identified**COMMUNICABILITY:** Not usually transmitted from person to person**SECTION III - DISSEMINATION****RESERVOIR:** Salt and freshwater, soil, sewage**ZOONOSIS:** None**VECTORS:** None**SECTION IV - VIABILITY****DRUG SUSCEPTIBILITY:** Susceptible to expanded- and broad-spectrum cephalosporins, aminoglycosides, carbapenems, chloramphenicol, tetracycline, trimethoprim-sulfamethoxazole and the quinolones

DRUG RESISTANCE: Resistant to penicillin, ampicillin, carbenicillin and ticarcillin

SUSCEPTIBILITY TO DISINFECTANTS: Susceptible to many disinfectants - 1% sodium hypochlorite, 70% ethanol, 2% glutaraldehyde, iodines, phenolics, formaldehyde

PHYSICAL INACTIVATION: Sensitive to moist heat (121°C for at least 15 min) and dry heat (160-170°C for at least 1 hour)

SURVIVAL OUTSIDE HOST: Survives well in natural water sources and soil

SECTION V - MEDICAL

SURVEILLANCE: Monitor for symptoms

FIRST AID/TREATMENT: Fluid replacement and antibiotic therapy as indicated

IMMUNIZATION: None

PROPHYLAXIS: Not usually administered

SECTION VI - LABORATORY HAZARDS

LABORATORY-ACQUIRED INFECTIONS: None reported to date

SOURCES/SPECIMENS: Faeces, urine, blood, sputum, bile

PRIMARY HAZARDS: Ingestion, accidental parenteral inoculation, direct contact of mucous membranes

SPECIAL HAZARDS: Naturally or experimentally infected cold-blooded animals

SECTION VII - RECOMMENDED PRECAUTIONS

CONTAINMENT REQUIREMENTS: Biosafety level 2 practices, containment equipment and facilities for all activities involving known or potentially infectious clinical materials and cultures

PROTECTIVE CLOTHING: Laboratory coat; gloves when direct contact with infectious materials is unavoidable

OTHER PRECAUTIONS: Good personal hygiene and frequent handwashing

SECTION VIII - HANDLING INFORMATION

SPILLS: Allow aerosols to settle; wearing protective clothing, gently cover spill with absorbent paper and apply 1% sodium hypochlorite, starting at the perimeter and working towards the centre; allow sufficient contact time (30 min) before clean up

DISPOSAL: Decontaminate before disposal; steam sterilization, chemical disinfection, incineration

STORAGE: In sealed containers

SECTION IX - MISCELLANEOUS INFORMATION

Date prepared: November 1999

Prepared by: Office of Laboratory Security, PHAC

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