PATHOGEN SAFETY DATA SHEET

Aspergillus spp.

CHARACTERISTICS	
	Fungus belonging to the Trichocomaceae family. Colonies grow rapidly, producing white, green, yellow,
Morphology	or black colonies
Disease	Aspergillosis, Farmer's Lung. A. fumigatus causes most infections, and A. niger and A. flavus are second.
Zoonosis	None.

HEALTH HAZARDS	
Host Range	Humans, animals, and birds.
Modes of	Inhalation, through contaminated water, and
Transmission	nosocomial infections (hospital fabrics and plastics)
	Fever, facial pain, headache, asymmetric facial
Signs and	swelling, epistaxis, proptosis, cranial nerve
Symptoms	abnormalities.
Infectious Dose	Unknown.
Incubation Period	2 days to 3 months

MEDICAL PRECAUTIONS/TREATMENT	
Prophylaxis	None available.
Vaccines	None available.
	Voriconazole, amphotericin B, posaconazole and
	echinocandins. Is resistant to itraconazole and some
	isolates have been reported to be resistant to
Treatment	voriconazole, posaconazole and echinocandins.
Surveillance	Monitor for symptoms.
MSU Requirements	Report any exposures

LABORATORY HAZARDS	
Laboratory	
Acquired Infections	
(LAIs)	None reported
	Sputum, biopsy material, transtracheal aspirates,
	blood, and soil. Inhalation of air contaminated with
Sources	Aspergillus spores.

SUPPLEMENTAL REFERENCES	
	http://www.phac-aspc.gc.ca/lab-bio/res/psds-
Canadian MSDS:	ftss/index-eng.php
BMBL	https://www.cdc.gov/labs/BMBL.html
	https://www.cdc.gov/fungal/diseases/aspergillosis/ind
CDC	<u>ex.html</u>
	https://osp.od.nih.gov/wp-
NIH Guidelines	content/uploads/NIH Guidelines.pdf

RISK GROUP & CONTAINMENT REQUIREMENTS	
	Agents that are associated with human disease
	which is rarely serious and for which preventive or
Risk Group 2	therapeutic interventions are often available.
	For all procedures involving suspected or known
BSL2	infectious specimen or cultures.
ABSL2	For all procedures involving infected animals

SPILL PROCEDURES	
S well	Notify others working in the lab. Remove PPE and don new PPE. Cover area of the spill with absorbent material and add fresh 1:10 bleach:water Allow 20 minutes (or as directed) of contact time. After 20
Small	 minutes, cleanup and dispose of materials. Immediately notify all personnel in the lab and clear all personnel from the area. Remove any contaminated PPE/clothing and leave the lab. Secure the area by locking doors, posting signage and guarding the area to keep people out of the space. For assistance, contact MSU's Biosafety Officer (406-994-6733) or Safety and Risk Management (406-994-
Large	2711).

EXPOSURE PROCEDURES	
	Flush eyes, mouth, or nose for 5 minutes at eyewash
Mucous membrane	station.
Other Exposures	Wash area with soap and water for 5 minutes.
	Immediately report incident to supervisor, complete
	a <u>First Report of Injury</u> form, and submit to Safety
Reporting	and Risk Management.
	During business hours:
	Bridger Occupational Health 3406 Laramie Drive
	Weekdays 8am -6pm. Weekends 9am-5pm
	After business hours:
	Bozeman Deaconess Hospital Emergency Room
Medical Follow-up	915 Highland Blvd

VIABILITY	
	Susceptible to 1:10 bleach:water, 70 % ethanol,
Disinfection	accelerated hydrogen peroxide
	Inactivated by heat (greater than 45 minutes at
Inactivation	60°C).
Survival Outside Host	Can survive in soil and decomposing vegetation.

PERSONAL PROTECTIVE EQUIPMENT (PPE)	
Minimum PPE Requirements	Lab coat, disposable gloves, safety glasses, closed toed shoes, long pants
Additional Precautions	Additional PPE may be required depending on lab specific SOPs and IBC Protocol.