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Prepared by BioTechnology, Inc.

SUMMARY OF MEDICAL REQUIREMENTS

WORK EXPOSURE (REFERENCE AND DATE) BOLD TYPE FOR OSHA STANDARDS	A. PRE-PLACEMENT REQUIREMENT FOR THOSE WHO WILL BE OR ARE SUBJECT TO OCCUPATIONAL EXPOSURE (FOR RECOMMENDATIONS), OR FOR THOSE WHO WILL BE OR ARE EMPLOYED IN REGULATED AREAS (FOR STANDARDS), UNLESS OTHERWISE STATED.	B. PERIODIC REQUIREMENTS FOR THOSE SUBJECT TO OCCUPATIONAL EXPOSURE (FOR RECOMMENDATIONS), OR FOR THOSE WHO ARE AUTHORIZED EMPLOYEES (FOR STANDARDS), UNLESS OTHERWISE STATED.	C. OTHER REQUIREMENTS FOR THOSE SUBJECT TO OCCUPATIONAL EXPOSURE (FOR RECOMMENDATIONS), OR FOR THOSE WHO ARE AUTHORIZED EMPLOYEES (FOR STANDARDS), UNLESS OTHERWISE STATED.
Asbestos (1910.1001, 11/78)	1. For those exposed to airborne concentrations. 2. Medical exam, with a minimum of: a. 14" x 17" post/ant chest X-ray; b. Pulmonary function tests (FVC, FEV1.0). 3. Medical history, eliciting symptomology of respiratory diseases.	At least annually 1. For those exposed to airborne concentrations. 2. Same as in A.	30 days prior to termination of employment 1. Same as in A.
Asphalt fumes (NIOSH 78-106, 10/78)	1. Comprehensive medical and work histories, emphasizing: a. Eyes; b. Skin; c. Respiratory system. 2. Physical exam, with attn to abnormalities in: a. Eyes; b. Skin; c. Respiratory system. 3. Ability to use positive or negative pressure respirator.	As DBRP 1. Same as in A.1 and 2.	In the event of illness known or suspected to be due to asphalt fumes 1. Physical examination.
Benzene (1910.1028, 4/79)	1. For those who are or may be exposed to benzene at or above the action level and those subjected to an emergency. 2. Work history: a. Past exposure to benzene and other hematologic toxins; b. Exposure to marrow toxins outside current work situation, including volatile cleansing agents and insecticides.	At least semi-annually 1. Same as in A. 2. Interim work history: a. New exposure to potential marrow toxins. 3. Interim personal history: a. Change in drug/alcohol intake; b. Change in appearance of physical symptoms relating to blood disorders.	In an emergency 1. Urinary phenol test. 2. If C.1 is 75 mg phenol/ℓ of urine, then provide complete blood count as in A.5.a.i, ii, and iii. This should also be done one month later. 3. If any of the blood tests taken for either A or B indicate abnormal red cell, white cell, or thrombocyte counts or hemoglobin level, employee should be referred to a hematologist.

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PLAINTIFF'S EXHIBIT
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Crystalline silica (NIOSH 75-120, 11/74)	1. Medical and work history: a. Exposure to free silica; b. Signs/symptoms of respiratory disease. 2. 14" x 17" or 14" x 14" post/ant chest X-ray. 3. Baseline FVC and FEV1.0. 4. Ability to use negative or positive pressure respirator. 5. Body weight, height, and age.	At least every 3 yrs 1. Same as in A, except 3.	
1,2-Dibromo-3-chloropropane (1910.1044, 7/78)	1. Medical and work histories, including reproductive history. 2. Physical exam, including: a. Genitourinary tract, testical size, body habitus, including sperm count; b. Serum specimen: FSH, LH, total estrogen (for women), and others, as DBRP.	Annually 1. Same as in A.1 and 2. 2. Additional appropriate examinations, as DBRP.	In an emergency situation 1. Sperm count as soon as practicable, and 3 mos later. 2. If vasectomized, serum specimen as in A.2.b.
3,3-dichlorobenzidine (and its salts) (1910.1007, 11/78)	1. Physical exam, with attn to: a. Decreased immuno-competence; b. Treatment with steroid or cytotoxic agent; c. Pregnancy; d. Cigarette smoking. 2. Personal, family, and occupational histories, including: a. Genetic factors; b. Environmental factors.	At least annually 1. Same as in A.	

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Dinitro-ortho-cresol (continued)	b. Complete blood count; c. Hematocrit; d. Liver function; e. Kidney function. 4. Ability to use positive and negative pressure respirators.		
Dioxane (NIOSH 77-226, 9/77)	1. Comprehensive medical and work histories, emphasizing disorders of: a. Upper respiratory system; b. Hepatic function; c. Renal function. 2. Physical exam, with attn to: a. Nares; b. Hepatic function; c. Renal function. 3. Clinical tests, at least: a. Liver function test, e.g., SGOT, SGPT; b. Kidney function test, e.g., complete urinalysis. 4. Ability to use positive pressure respirator.	Annually 1. Same as in A.1, 2, and 3.	
Emergency egress from elevated work stations (NIOSH 76-128, 1976)	1. Medical and work histories. 2. If work at <80 ft but >15 ft: a. Depth perception; b. Fields of vision; c. Reaction time; d. Manual dexterity; e. Coordination; f. Abnormal tendency toward dizziness.	Annually, or as DBRP 1. Same as in A.	

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WORK EXPOSURE (REFERENCE AND DATE) BOLD TYPE FOR OSHA STANDARDS	A. PRE-PLACEMENT REQUIREMENT FOR THOSE WHO WILL BE OR ARE SUBJECT TO OCCUPATIONAL EXPOSURE (FOR RECOMMENDATIONS), OR FOR THOSE WHO WILL BE OR ARE EMPLOYED IN REGULATED AREAS (FOR STANDARDS), UNLESS OTHERWISE STATED.	B. PERIODIC REQUIREMENTS FOR THOSE SUBJECT TO OCCUPATIONAL EXPOSURE (FOR RECOMMENDATIONS), OR FOR THOSE WHO ARE AUTHORIZED EMPLOYEES (FOR STANDARDS), UNLESS OTHERWISE STATED.	C. OTHER REQUIREMENTS FOR THOSE SUBJECT TO OCCUPATIONAL EXPOSURE (FOR RECOMMENDATIONS), OR FOR THOSE WHO ARE AUTHORIZED EMPLOYEES (FOR STANDARDS), UNLESS OTHERWISE STATED.
Emergency egress from elevated work stations (continued)	3. If work at >80 ft: a. Visual acuity to ensure at least 20/30 Snellen in one eye and 20/50 in the other (correct with lenses if necessary); b. Color perception; c. Hearing tests, with or w/o aids (to ensure at least 15/20 in one ear; or a hearing loss of ≤20 db in normally tested frequencies); d. Strength; e. Endurance; f. Agility; g. Coordination; h. Speed of reactions; i. Beware of: i. Cardiovascular diseases; ii. Epilepsy; iii. Diabetes; iv. Emotional instability.		
Epichlorohydrin (NIOSH 76-206, 9/76)	1. Comprehensive medical and work histories. 2. Complete physical exam, with attn to: a. Kidneys; b. Liver; c. Respiratory tract; d. Hematopoietic system; e. Complaints and evidence of eye, mucous membrane, and skin irritations. 3. As DBRP: a. SGPT and SGOT; b. Lactic dehydrogenase. 4. Ability of workers to use respirators.	Annually 1. Same as in A.1, 2, and 3.	Additional 1. For overexposure. 2. First aid.

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WORK EXPOSURE (REFERENCE AND DATE) BOLD TYPE FOR OSHA STANDARDS	A. PRE-PLACEMENT REQUIREMENT FOR THOSE WHO WILL BE OR ARE SUBJECT TO OCCUPATIONAL EXPOSURE (FOR RECOMMENDATIONS), OR FOR THOSE WHO WILL BE OR ARE EMPLOYED IN REGULATED AREAS (FOR STANDARDS), UNLESS OTHERWISE STATED.	B. PERIODIC REQUIREMENTS FOR THOSE SUBJECT TO OCCUPATIONAL EXPOSURE (FOR RECOMMENDATIONS), OR FOR THOSE WHO ARE AUTHORIZED EMPLOYEES (FOR STANDARDS), UNLESS OTHERWISE STATED.	C. OTHER REQUIREMENTS FOR THOSE SUBJECT TO OCCUPATIONAL EXPOSURE (FOR RECOMMENDATIONS), OR FOR THOSE WHO ARE AUTHORIZED EMPLOYEES (FOR STANDARDS), UNLESS OTHERWISE STATED.
Glycidyl ethers (continued)	c. Pulmonary function tests; d. Manual dexterity tests; e. Visual-motor coupling tests.		
Hot environments (NIOSH 72-10269, 6/72)	1. Medical examination, with attn to: a. Cardiovascular system; b. Renal system; c. Hepatic system; d. Endocrine system; e. Respiratory system; f. Skin 2. History of previous heat-related disorders and illnesses.	Biennially 1. For those ≤45 yrs old. 2. Same as in A. Annually 3. For those >45 yrs old. 4. Same as in A.	
Hydrazines (NIOSH 78-172, 6/78)	1. Comprehensive medical and work histories, with special attn to: a. Dermal contact. 2. Comprehensive physical exam, with special attn to: a. Dermal contact. 3. Clinical tests, including: a. Complete and differential blood count; b. Liver function test (SGOT, SGPT included); c. Urinalysis, including specific gravity, glucose, protein, microscopic exam; d. 14" x 17" post/ant chest X-ray. 4. Urobilinogen and serum bilirubin tests, as DBRP. 5. Ability to use positive pressure respirator.	At least annually 1. Same as A.1, 2, 3, and 4.	Additional 1. For those with illnesses due to exposure. 2. Appropriate medical services. In an emergency 3. Immediate medical attention and appropriate follow-up medical care.

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Ketone (NIOSH 78-173, 10/78)	1. Comprehensive medical and work histories: a. Pre-existing neuropathy; b. Disorders of: i. Nervous system; ii. Respiratory system; iii. Eyes. 2. Physical exam, with attn to: a. Central and peripheral nervous system; b. Respiratory system; c. Eyes. 3. Urinalysis, as indicator of kidney function. 4. Appropriate liver tests, as DBRP. 5. An electrodiagnostic exam (for those exposed to methyl n-butylketone), including electromyography and nerve conduction velocity measurement. 6. Ability to use negative and positive pressure respirators.	Annually, and as DBRP 1. Same as in A, except 6.	Additional 1. For those with adverse effects from exposure. 2. Appropriate medical management.
Lead (inorganic) (1910.1025, 4/79) SEE OSHA STANDARD	1. For those who are or may be exposed above the action level for more than 30 days/yr. 2. Work history, including past lead exposure at and outside work. 3. Personal or medical history, with attn to: a. Smoking; b. Hygiene and other habits; c. Past gastrointestinal problems; d. Past reproductive problems; e. Past cardiovascular problems; f. Past neurologic problems.	At least annually 1. For those in A.1 who have a blood lead level $\geq$40 µg/100 g in the past yr. 2. Same as in A.	Additional 1. For those developing signs/symptoms associated with lead intoxication. 2. Same as in A. Additional 3. For those removed from area due to risk of impairment to health, or for those restricted due to a final medical exam. 4. Appropriate medical management.

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Lead (inorganic) (continued)	4. Physical exam, with attn to: a. Teeth and gums; b. Hematologic system; c. Gastrointestinal system; d. Renal system; e. Neurologic system; f. Pulmonary status (to be evaluated if respiratory protection will be used). 5. Lab tests: a. Blood pressure; b. Blood sample and analysis: i. Blood lead levels; ii. Hemoglobin; iii. Hematocrit; iv. Red cell indices; v. Peripheral smear morphology; vi. Zinc protoporphyrin; vii. Blood urea nitrogen; viii. Serum creatinine; c. Routine urinalysis, with microscopic exam; d. Any other tests, as DBRP.		
Logging (from felling to first haul) (NIOSH 76-188, 7/76)	1. Medical examination for previously existing and new conditions that would endanger worker's safety: a. Cardiovascular system; b. Musculoskeletal system; c. Central nervous system; d. Integrity of extremities and digits; e. Integrity of hearing; f. Visual acuity; g. Peripheral vasculature (Reynaud's syndrome), for chain saw operators. 2. Complete series of tetanus toxoid innoculations.	Biennially 1. For those $<$40 yrs old. 2. Same as in A.1. Annually 3. For those $\geq$40 yrs old. 4. Same as in A.1. Every 10 yrs, unless injury intervenes 5. Booster doses of tetanus toxoid innoculations.	After absence for injury of 5 or more days 1. Medical exam to determine fitness. In an emergency 2. First aid, with emergency assistance and medical services, as necessary.

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N-Nitrosodimethylamine (continued)	2. Personal, family, and occupational histories, including: a. Genetic factors; b. Environmental factors.		
Noise (NIOSH 73-11001, 8/72)	1. Baseline audiogram, which includes: a. Aural medical history; b. Last exposure to high level noise; c. Number of hours since exposure; d. Type of exposure; e. Noise level, if known.	Within 30 days of assignment, and every 6 yrs 1. Same as in A. Biennially 1. See pp 1-6 and 7 of Reference for specific levels for testing.	
Organotin compounds (NIOSH 77-115, 11/76)	1. Comprehensive medical and work histories. 2. Complete physical exam, with attn to: a. 14" x 17" post/ant chest X-ray; b. FVC and FEV1.0; c. SGOT, SGPT, and any other tests of hepatic function, as DBRP; d. Eye exam, including tests for: i. Visual acuity; ii. Color vision; iii. Pupillary reactions; iv. Glaucoma; v. Possibility of choked disc; e. ECG (for ≥40 yrs old); f. Prior history of increased intracranial pressure; g. If spinal fluid is measured, then perform Quekenstedt maneuver; h. Urinalysis. 3. Ability to use positive or negative pressure respirator.	Annually, or as DBRP 1. Same as in A.1 and 2, with the exception of neurologic exam, as DBRP.	In an emergency 1. Examination to determine need for treatment, with attn to: a. Eyes; b. Lungs. Additional 2. For those with adverse health effects. 3. Appropriate medical services.

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Toluene (NIOSH 73-11023, 7/73)	1. Medical exam: a. Headache, nausea, dizziness; b. Attn to complaints and evidence of irritations of: i. Eyes; ii. Mucous membranes; iii. Skin. 2. Lab tests: a. Complete blood count; b. Urinalysis.	Biennially 1. Same as in A.	
Toluene diisocyanate (NIOSH 73-11022, 7/73)	1. Comprehensive medical history, with attn to: a. Respiratory allergy; b. Previous sensitization to TDI; c. Chronic bronchitis; d. Emphysema; e. Disabling pneumoconiosis; f. Cardiopulmonary disease with significantly impaired ventilatory capacity; g. Allergy other than respiratory. 2. Comprehensive physical exam, with: a. 14" x 17" chest X-ray; b. Total red blood cell count with differential; c. Baseline FVC and FEV1.0; d. Absolute eosinophil count on capillary blood; e. Respiratory symptoms (e.g., breathlessness, cough, sputum production, wheezing, tightness in chest); f. Smoking. 3. Ability to use positive or negative pressure respirator.	Annually, or as DBRP 1. Same as in A, except for 2.a.	

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