


JOB SAFETY ANALYSIS		
Worksheet Number or Identifier: Art Studio Ceramics		
Job/Operation Title: Handling dry material for ceramic work (pre-mixing)	Date: 07/08/2021	
Department/Division/Section: Art and Art History	Developed By: Chris Frydenlund	
Location(s): ARC	Reviewed By: Paula Tate	
Person(s) Performing This Job: Students, faculty and staff	Supervisor: Alicia Quijano	
Start Date: All Spring, Summer, and Fall semesters.	Duration: 24/7	

Task/Step	Potential Hazards	Recommended Safe Job Procedures
1. Preparation	<ol style="list-style-type: none"> 1. Lack of general and specific training. 2. Hazardous environment 3. Slip, trip and fall hazards 4. Malfunctioning engineering controls 5. Lack of SDS 8. Lack of the proper personal protective equipment 	<p>You must come prepared to work in the academic laboratory environment, including all training and reading the SDS for the material.</p> <p>Handling respirable silica may cause silicosis so preparation and knowledge of this fact is imperative</p> <p>Be situationally aware of the wearhouse environment: pallets, boxes, lifting/carrying</p> <p>Keep the area clear to prevent slips, trips or falls.</p> <p>Ensure the proper personal protective equipment is available for use</p>
2. Conduct transfer of dry material	<ol style="list-style-type: none"> 1. Breathing in hazardous dusts 2. Damaged equipment 3. Area not clear for transport 4. Improper equipment for transport 5. Failure to wear personal protective equipment 6. Failure to clean and properly stow material and equipment 8. Do not work unless someone else knows you are in a studio 	<p>Know the dangers of respirable silica</p> <p>Do not handle any material if storage, transport, or building equipment is damaged. Report damage to supervisor</p> <p>Use the proper technique and equipment for work</p> <p>Always wear personal protective equipment in areas marked with signage and while handling material</p> <p>When finished make sure all equipment is working properly, storage bins are closed and the area is free from ceramic or other loose material</p> <p>Always make sure someone knows you are working</p>

Task/Step	Potential Hazards	Recommended Safe Job Procedures
3. Completion/cleanup	<ol style="list-style-type: none"> Clean area as per manufacturers recommendations and SDS instructions Report broken equipment and personal protective equipment to the supervisor Ensure supervisors know you are done with the work Wash hands and other exposed body parts prior to leaving the area 	<p>Materials and personal protective equipment should be disposed in a manner consistent with the manufacturer's instructions or SDS</p> <p>Always report any broken equipment or personal protective equipment to a supervisor</p> <p>Always let a supervisor or other patron you completed work for that day</p> <p>Wash hands for 30 seconds, use paper towel to turn off water and throw away (hand sanitizer does not work on dirty hands).</p>

POTENTIAL HAZARDS OF THIS JOB: PHYSICAL

Hazards	Prob.	Sev.	Consequences
Combustible materials	0	0	Silica exposure may cause silicosis
Corrosive materials	0	0	Slip, trip, fall
Flammable materials and liquids	0	0	Exposure (inhaling, swallowing, or absorbing) to harmful levels of gases, vapors, aerosols, liquids, fumes, or dust)
Toxic or poisonous material	3	3	
Heaters and boilers (steam)	0	0	
Ignitable materials and liquids	0	0	
Reactive materials and liquids	0	0	
Sharp objects	1	2	
Ventilation	2	3	

POTENTIAL HAZARDS OF THIS JOB: CHEMICAL

Hazards	Description/Health Hazards
Strong acids	0
Corrosive organic molecules	0
Toxic organic molecules	NFPA 704 Health 3; poison, toxic, carcinogen
Strong bases	0
Various salts	0

POTENTIAL HAZARDS OF THIS JOB: BIOLOGICAL

Hazards	Prob.	Sev.	Consequences
Blood borne pathogens	1	1	Allergic reactions
Bodily fluids	1	1	Respiratory illness

HAZARD CONTROL MEASURES USED FOR THIS JOB

<p>Administrative Controls:</p> <p>Emergency procedures Fire protection program Housekeeping practices Inspections (ongoing) work areas, equipment, tools, etc. Inspections (pre-job) - work areas, equipment, tools, etc. Material handling procedures Monitoring (hazardous atmospheres) Operating instructions (equipment) Operating procedures (process) Policy or policies Safety and health program Safety checklists (use to document inspections) Safety Data Sheets (SDS) Signage Trained personnel Work practices Work schedules (adjust time)</p>	<p>Required Training:</p> <p>Hazard Communication (HAZCOM). Laboratory safety. Personal protective equipment (PPE). Specific Art Studio training on silica</p>
<p>Engineering Controls:</p> <p>Air filtration Ventilation and exhausting</p>	<p>Required PPE:</p> <p>Clothing - chemical resistant Clothing - long pants Eye protection Nitrile gloves Personal protective equipment Safety glasses Face mask</p>
<p>Required Permit(s):</p> <p>Completion of required training.</p>	<p>Other Information:</p> <p>This is a continuous process.</p>

JSABuilder chemical Description/Health Hazards is from the CAMEO database maintained by the U.S. EPA, NOAA, and the U.S. Coast Guard (www.cameochemicals.noaa.gov).

Probability	Severity
1 - Low	1 - Low
2 - Medium	2 - Medium
3 - High	3 - High