RISK ASSESSMENT TOOL for LABORATORY PROCEDURES

PROCEDURE IDENTIFICATION:

List chemicals used. Attach MSDS and any written procedures.

| Chemical Volume(s) | | Micro < 0.5 L | 0.5 | Normal | 2 L | Large > 2 L |
|--|-----|----------------------------------|------------------|-------------------|------------------|--------------------------|
| | | 1 | 2 | 3 | 4 | 5 |
| Hazard Recognition | | None | | Routine | | Extreme |
| USE HIGHEST SCORE ON Flammable Corrosive Toxic Cryogenic | ILY | 0 0 0 0 | 1 1 1 1 | 2 2 2 2 | 3 3 3 3 | 4 5 4 5 4 5 4 5 |
| Process Conditions | N/A | Sub-ambient (P < 1 atm; T < 10°C | Ambie & < 40 | ent (P = 1 atm; 7 | Γ > 10 | Extreme |
| | 0 | 3 | 1 | 2 | | 3 5 |
| Explosive Hazard | | No | Yes | | | |
| | 0 | 0 | 5 | | | |
| Radiation Hazard | | Minimal | | Normal | | High |
| | 0 | 1 2 | 3 | | 4 | 5 |
| Other Hazard: Specify & Score | | Minimal | - | Normal | | High |
| | 0 | 1 2 | 3 | | 4 | 5 |
| Special Hazards: | | Inhalation Toxicity 0 5 | Reacti | ve | | 0 5 |
| Procedure | | Detailed & Written | Ro | utine | | Under Development |
| | | 0 | 1 | 2 3 | 4 | 5 |
| Personnel Preparedness & Training | | Fully Trained & Prepared | Routir | ne | | Untrained |
| | | 0 | 2 | | 4 | 5 |
| Ventilation Needed | | Hood Used | Genera | al Lab Only | | Not Used |
| | | 0 | 3 | | 4 | 5 |
| Shielding Needed | | Used | | | | Not Used |
| | | 0 | | | | 5 |
| Equipment Maintenance | | Regularly Performed & Document | ed | | | Never Performed |
| | | 0 | 1 | 2 3 | 4 | 5 |
| | | | | | | |

| Initial Score: | _ |
|----------------|---|
|----------------|---|

| RECOMMENDED ACTIONS BASED ON SCORE | | | | |
|------------------------------------|---------|--|--|--|
| LOW | < 15 | Procedure can be performed with routine precautions. | | |
| MODERATE | 15 - 25 | Procedure can be performed with attention given to specific hazards. Supervision is recommended. | | |
| HIGH | 26 - 30 | Procedure may be performed if necessary. High level attention must be given to all hazards. High level, continuous supervision is mandatory. | | |
| EXTREME | > 30 | Procedure must be revised to lower the risk. | | |

If score is > 25, risk reduction actions should be identified and implemented.

INSTRUCTIONS

Complete the LABRAT as part of the the procedure review. Scoring is based on a 0 - 5 scale, with 0 being "NOT APPLICABLE" and 5 being "Extreme" Your can assign any score to a specific box applicable, even if the score vale is not shown on the RAT. After scoring, interpret the score using the guidelines in the top of the right column. The IC can increase or decrease the assessment, based on the situation.

List Chemicals Used

| Chemical | Volume or Weight |
|----------|------------------|
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ADVANCED CHEMICAL SAFETY RISK ASSESSMENT TOOL LABORATORY PROCEDURE

| Date: Lab Location: | | | | Type of Work: 9 DEVELOPMENTAL 9 ROUTINE | | | |
|--|---|----------------------------------|---|--|-----------------------------------|--|--|
| SEQUENCE of STEPS & ACTIONS | HAZARDS ASSOCIATED w/ STEP or ACTION | | RECOMMENDED CONTROL PROCEDURES | LS or Check items which apply to job. All checked items must addressed in the Work Plan. | | | |
| | | | | MSDS Fume Hood Shielding Spill Containment Fire Suppression Equ Grounding & Bondin Hand Protection Req Eye Protection Respiratory Protection Lab Coat Gloves Respiratory Protection Lifting Special PPE Heat Protection Cold Protection Radiant Energy Prote | g uired n n: SCBA or APR | | |
| List All Employees Assigned: JOB HA | | HAZARDS | EMERGENCY RES | SPONSE | | | |
| List Conditions used, particularly temperature and pressure. List all Monitoring Equipment Needed | | 11 11 11 11 11 11 | Exposure to Public Fire Hazards Toxic Chemical Hazards Health Hazards Pressure Hazards Pressure Relief Valve; Rupture Static Electricity Hazards Other (list) | Local FD 91: Local PD 91: isks Sewer Authority: Air Quality: Environmental Servic Client Contact: | l orl orl orl ees: | | |
| ENVIRONMENTAL ISSUE | S | | | J:\FORMS\RATS\LABRAT-all.wp | od | | |

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Releases to air

Releases to land

Releases to water

H/W Generated