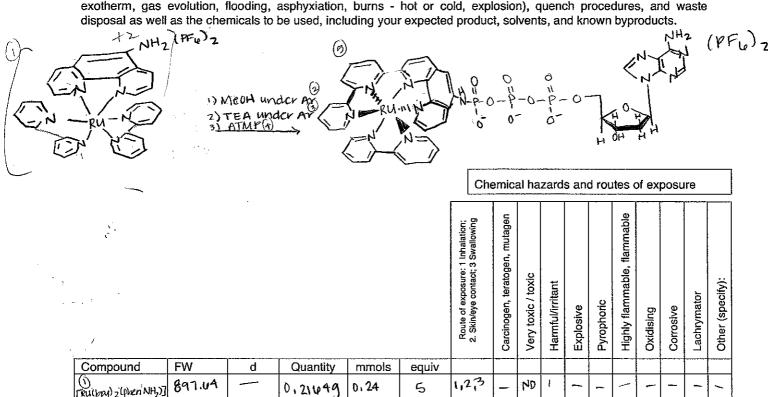
Reaction Risk Assessment Form.

Reaction number: ATP002 DP

Write your reaction here including work-up and purification method (e.g. chromatography). Use the form below to risk assess ALL associated reaction and process conditions (e.g. heating, cooling, vacuum), particular hazards (e.g., exotherm, gas evolution, flooding, asphyxiation, burns - hot or cold, explosion), quench procedures, and waste disposal as well as the chemicals to be used, including your expected product, solvents, and known byproducts.



							0	>	표	ш	O.	IT	0	0]	0
Compound	FW	d	Quantity	mmols	equiv											
[Ru(bpy) z'(phen NH2)] (PF6)2	897.04		0.21449	0.24	5	1,2,3	_	ND	ł	_	_		1		-	,
		A:192		247		1,2,3		2	1	-	-	3		١	_	_
	32.07		10 mL	-		1 2 2	2	2	١	1		ţ		2		
3 TEA	149,19						כ		•			_			_	
ATMP	489.17	_	vo.02369	0.040	1	1,2,3	-	3	_	_				<u></u>		
& toxicity based	1388.86	_	~0.01€7a	0,048	١	1,2,3	-	ND	١	-	_		-	_	_	_
vipyridine) rutheniu	1			_		<u> </u>				<u> </u>						
@MEDH @TEA @ATMP @ toxicity based on tris(2,2-	32.04 149.19 489.17 1388.80	0:792	10 mL 0,25mL 00.0236g	247 1.88 0.048 0.048	1	1,2,3	131	2 2 3 ND	1 1 - 1	-		3 1		1 2		

Repeat experiment (this book only - please circle one) (No) / Yes (previous assessment on page:

New experiment (Please tick one):	Category:	<u>A</u>) B	С	D	
		Chi-A			

Standard protocol followed? (Please give reference) CWCM COM YWAATZ (2008) PG02-604 SUPPLEMENTAM WFO Reaction conditions and associated processes (heat, cooling, pressure, vacuum etc) and hazards:

Control Measures: (please tick boxes)	Safety glasses: ✔	Lab coat: ✓	Fume hood: 🗸	Safety screen:			
	Gloves (type):	Nitrile: ✓	Marigolds: Other:				
	Scrubbing train (type):		Other:				

Are specific emergency procedures necessary for this process: Yes/No. If Yes, give details:

(Refer to general risk assessments on Departmental safety website)

Reaction and/or reagent quench: (Give quench type and possible hazard)				
Waste disposal: Chlorinated Waste (circle as appropriate)	Hydrocarbon Waste	Silica Waste	Other (specify): Aqueous	
Co-worker signature:	Designated	d Supervisor Sig	nature:	
Date:	Date:			

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 2L 2 3 4	Large >2 L
Hazard Recognition	None	Routine	Extreme
USE HIGHEST SCORE ONLY Flammable Corrosive Toxic Ctyogenic	0 0 0	 2202 4040	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Process Conditions N/A	Sub-ambient (P < 1 atm; T < 10°C	Ambient (P = 1 atm; T > 10 & < 40°C)	Extreme
. 0	3	2	3 5
Explosive Hazard	No	Yes	
0	0	5	
Radiation Hazard	Minimal	Normal	High
0	1 2	3	5
Other Hazard: Specify & Score	Minimal	Normal	High
0	1 2	3 4	5
Special Hazards:	Inhalation Toxicity 0 \bigcirc 5	Reactive	٤ (ق
Procedure	Detailed & Written	Routine	Under Development
	0	1 2 3 4	5
Personnel Preparedness & Training	Fully Trained & Prepared	Routine	Untrained
	0	(2) 4	5
Ventilation Needed	Hood Used	General Lab Only	Not Used
	9	3 4	5
Shielding Needed	Used		Not Used
	9		S
Equipment Maintenance	Regularly Performed & Documented	ed.	Never Performed
	0)	1 2 3 4	S

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•	•	
	_	_ 2
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	RECOM	RECOMMENDED ACTIONS BASED ON SCORE
MOT	< 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

on the situation. 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

List Chemicals Used

			Chemical	TIST CIRCITICATS CSCC
			Volume or Weight	