Disclaimer:

Introduction:

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Lab Hazard Trigger Grid

The Lab Hazard Trigger Grid is used as a tool to complete hazard assessment and planning for research activities as defined in The Dow Chemical Company R&D Management of Change Work Process.

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LAB HAZARD ASSESSMENT TRIGGER GRID

	Lab Hazard	Risk Assessment Grid	
Emphais Areas	Hazards to Consider		
	Is a Pre-Start Up review/walk-through required?		
General Considerations	Is an EH&S contact required to review the changes and be present at the prestart-up walk-through?		
General Changes	Change in Personal Protect	tive Equipment Requirements	
	New Person/Operator		
	New procedure or change to existing procedure		
	Sale of Product		
	Ergonomic Hazards		
	Operating Pressure	Glassware	
		Metal	
		Non-glassware/non-metal (e.g. PVC, teflon, polyethylene tubing, tygon tubing)	
Equipment/Operating Changes	Temperature	Ovens or equipment operating at elevated temperatures	
		Cryrogenic materials	
	Operation		
		Unattended operation	
		Change impacts existing safety devices	
	Equipment / Area	Electrical Sources	
		New or modifications to radiation sources	
		Decommisioning a lab/area	
		New or modifications to equipment larger than laboratory bench scale	
		New or modified laboratory bench scale equipment/instrumentation where changes are not covered under	
	Ventilation System	New ventilation system	
		Using existing ventilation in a new/different way	
	Health	OSHA Coorosive, Carcinogen, Reproductive Toxin	
		Asphyxiant, lung damage, sensitizer, hepatoxins, nephatoxins, neurotoxins, blood toxins, nervous system	
		toxins	
	Flammability	Flammable gas (including gas generation from the reaction), Flammable liquids: Materials with FP <73F, NFPA Class IA or IB	
		Flammable material NFPA Class IC, Materials with FP >73F to <100F	
		Combustible liquids: NFPA Class II, IIIA, IIIB, Materials with a FP $>$ 100F and less than 200F	

CHEMICAL CHANGE	Reactivity	OSHA Organic Peroxide, OSHA Explosive, OSHA Unstable (Reactive)
		OSHA oxidizer, Peroxide former, Compressed Gases
	Combsutible Dusts	Work involving the use of or the potential to create combustible dusts through handling/processing.
		Potential hazard for a flash fire or explosion exists when a dust cloud is suspended in air, or if dust covers surfaces due to poor housekeeping.
	Flammable Solids	A solid, other than a blasting agent or explosive, that is liable to cause fire through friction, absorption of moisture, spontaneous chemical change, or retained heat from manufacturing or processing, or which can be ignited readily, and when ignited, burns so vigorously and persistently as to create a serious hazard.
	Thermodynamics	Potential Energy Release for Desired Reaction