WA UNI	KE FOREST versity		Standard (Procedu		<	
		F	PEROXIDE FORM	ING CHEMICALS	5	
Efi	ective Date:	8/23/20	13	Revise	ed Date:	10/10/2022
Introduction	า					
ch foi	emicals should rmed.	d be teste nemicals t acetals,	nrious chemicals th d every three to s hat are prone to p	ix months to ensu	ire that PE	eroxide forming EROXIDES have not
an	 acrylate seconda ketones hile aldehydes d do not accu me inorganic alkali m metal ar 	ry alcoho , ureas, a mulate to chemical s etals, nides, netallic co		IDES are:		oducts are degraded on, and
POTENTIAL	HAZARDS					
sen	sitive explosiv	es.	des are highly rea		-	extremely shock- es can lead to explosion,
inju ➤ Ma can bec pote	ry and/or dea ny chemicals f be introduced ome explosive entially explos	th. orm PERC l upon op e upon coi ive polym	DXIDES when allow ening the contain ncentration, as ha nerization reaction	ved access to air c er for PEROXIDES ppens in distillations s to occur. Organ	over a peri to form. S on experin ic PEROXI	od of time. Enough air
one bot ≻ Me	s). Glass conta tles that have tal spatulas sh	ainers tha screw-cap all not be	t have screw cap l b lids may be used	ids or glass stoppe EROXIDES because	ers shall n e contamii	DES (especially solid ot be used. Polyethylene nation by metals can sed.

WAKE FOREST	Standard O Procedure		
	PEROXIDE FORMI	NG CHEMICALS	
	23/2013	Revised Date	
	more likely to have pero> rd, as the PEROXIDES bec		
lealth Hazards			
➢ See SAFETY DATA SH	EET for specific health haz	zards	
Personal Protective Equipme	nt		
YE PROTECTION			
 FORMING CHEMICAL Ordinary (street) pre glasses must meet th 	es or face shields shall be S might contact the eyes scription glasses do not pl e requirements of the Pra .1-1989) and must be equ	(e.g., through vapors o rovide adequate protec actice for Occupational	r splashes of solution). ction. Adequate safety Education Eye and Face
IAND PROTECTION			
 Use disposable nitrile for breakthrough tim 	e when using I should thoroughly wash		emical compatibility chart vater before and
handling PEROXIDE F	sed toed shoes, long pants ORMING CHEMICALS. Pro stact with PEROXIDE FORM	otective clothing shall b	-
NORK PRACTICES			
			a hana ka mu funa a huru d
	DES FORMING CHEMICAL oncentration—do not dis		•
	ES—discard or test for PE		-
 The quantity of perox 	xide forming chemicals us		
amount required.			
	ng chemicals when receiv	ved and first opened.	

	WAKE FOREST university		Operating re (SOP)	
		PEROXIDE FORM	IING CHEMICALS	
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٨	even unopened containe	ly sold is guarantee ers might have dang containers shall be ch as a distillation p EROXIDES to shock	d to have less than 0.0 erous quantities of PE tested for PEROXIDES rocedure. and heat can be reduc	15 percent peroxide. Thus, ROXIDES for a distillation or prior to a use that might ed by dilution with inert
	decomposition of diacyl			
٨	Solutions of PEROXIDES i solvent might be vaporiz			r conditions in which the e concentration in the solutior
A	Metal spatulas shall not lead to explosive decom			ntamination by metals can y be used.
\blacktriangleright	Smoking, open flames, a	nd other sources of	heat shall not be pern	nitted near PEROXIDES.
8		hat have screw cap	lids or glass stoppers s	ROXIDES (especially solid shall not be used. Polyethylen
A	Polymerizable monomer monomer can be separa acrylonitrile, acrylic acid,	s shall be stored wir ted by distillation ju ethyl acrylate, and to develop hazardo	th a polymerization in st before use. Commo methyl methacrylate us levels in normal use	on acrylic monomers such as can form PEROXIDES, they e and storage. The hazard fror
A	Although air will not entr are sometimes transferred difficult to be sure that t into any such secondary can suggest inhibitors to liquid phase in such a second	ed from the original here is no residual a cylinder before one be used. The hazar condary container, a	cylinder to another in ir in the receiving cylin of these gasses is tran d posed by these gasse and even ignited gasse	d under pressure, these gasse the laboratory, and it is nder. An inhibitor shall be put nsferred into it; the supplier es is much greater if there is a es that have been put into a nall be discarded within 12
\blacktriangleright	Carry out distillation beh	ind shields.		
\checkmark	Do not leave ethers for le light.	ong periods of time	(about six months), in	a half-filled container or in th

WAKE FOREST		d Operating lure (SOP)		
	PEROXIDE FOR	MING CHEMICALS		
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 these materials m Store flammable F Store peroxide for To minimize the ratemperature consistal not be stored precipitate because Naste Disposal PEROXIDE FORMING these materials m 	NG CHEMICALS may not ust be disposed of. PEROXIDE FORMING CHE rming chemicals away fro ate of decomposition, PE istent with their solubilit d at or lower than the ten se PEROXIDES in these for NG CHEMICALS may not ust be disposed of.	MICALS in a flamma om heat and light. ROXIDES shall be sto y or freezing point. L mperatures at which orms are extremely so be stored for more t	ble stora ored at th iquids or the PER ensitive t han one	ge cabinet. ne lowest possible r solutions of PEROXIDES OXIDES freeze or to shock and heat.
CHEMICALS must PEROXIDE FORMI	FORMING CHEMICALS ar be placed in a container NG CHEMICALS" , AND 427 for hazardous waste	labeled with the follo INCLUDE THE FULL C	owing "H	
CHEMICALS must PEROXIDE FORMI	be placed in a container NG CHEMICALS", AND	labeled with the follo INCLUDE THE FULL C	owing "H	AZARDOUS WASTE
CHEMICALS must PEROXIDE FORMI • Contact EHS at x34 mergency Numbers	be placed in a container NG CHEMICALS", AND	labeled with the follo INCLUDE THE FULL C	owing "H	AZARDOUS WASTE
CHEMICALS must PEROXIDE FORMI • Contact EHS at x34 mergency Numbers mergency Numbers:	be placed in a container NG CHEMICALS" , AND 427 for hazardous waste	labeled with the follo INCLUDE THE FULL C	owing "H HEMICAI	IAZARDOUS WASTE
CHEMICALS must PEROXIDE FORMI • Contact EHS at x34	be placed in a container NG CHEMICALS" , AND 427 for hazardous waste ncies	labeled with the follo INCLUDE THE FULL C removal.	owing "H HEMICAI	IAZARDOUS WASTE
CHEMICALS must PEROXIDE FORMI • Contact EHS at x34 mergency Numbers mergency Numbers: Fire and Medical Emerger	be placed in a container NG CHEMICALS" , AND 427 for hazardous waste ncies d Safety	labeled with the follo INCLUDE THE FULL C removal. x5911 (911	owing "H HEMICAI on cell pl	IAZARDOUS WASTE
CHEMICALS must PEROXIDE FORMI • Contact EHS at x34 mergency Numbers mergency Numbers: Fire and Medical Emerger Environmental Health and	be placed in a container NG CHEMICALS" , AND 427 for hazardous waste docies d Safety aployees)	labeled with the follo INCLUDE THE FULL C removal. x5911 (911 x3427	owing "H HEMICAI on cell pl	IAZARDOUS WASTE
CHEMICALS must PEROXIDE FORMI • Contact EHS at x34 mergency Numbers mergency Numbers: ire and Medical Emerger invironmental Health and fastMed Urgent Care (em	be placed in a container NG CHEMICALS" , AND 427 for hazardous waste docies d Safety aployees)	labeled with the follo INCLUDE THE FULL C removal. x5911 (911 x3427 (336) 714-4	owing "H HEMICAI on cell pl	IAZARDOUS WASTE

- ➤ See SAFETY DATA SHEET for SPill Response information.
- ➤ Alert Lab Manager and call EHS at x3427.