

<b>MERIT Training Quick Card: Clan Lab Chemicals</b>				<a href="http://www.MERITTrainingPrograms.com">www.MERITTrainingPrograms.com</a>
CHEMICAL	SOURCE	COMMERCIAL USE	METH-LAB USE	ASSOCIATED HEALTH HAZARDS
Acetone	Stores and supply warehouses	Solvent	Extracting meth oil, stripping red phosphorous	Skin irritant, reproductive disorders
Ammonia Fumes	Manufactured	N/A	One Pot method when ammonium nitrate and lye are added together	Eye, skin and respiratory injuries
Ammonium Nitrate/sulfate	Agricultural supply	Fertilizer/ instant cold packs	Generating ammonia fumes	Explosive/ generates ammonia
Anhydrous ammonia	Commercial supply	Fertilizer refrigerant	Nazi method mixed with lithium	Caustic to skin and lung tissue, frost bite injuries, life threatening injuries
Ephedrine	Stores and supply warehouses	Cold medicine	Base precursor	Dangerous only if abused in high quantities
Ether	"Quick start' engine cleaner	Solvent	Extracting meth oil	Respiratory failure, death
Hydriodic acid	Chemical supply	Chemistry	Reducing base precursor to methamphetamine	Skin burns, thyroid damage, respiratory damage, blindness with contact to eyes
Hydrochloric (Muriatic acid)	Stores and supply warehouses	Masonry cleaner	Gassing meth to the crystal form	Respiratory failure, skin burns, liver damage, death
Hydrogen peroxide	Stores and supply warehouses	Disinfectant	Mixed with iodine tincture to form iodine crystal	Possible skin irritant, oxidizer
Sodium Hypophosphite (Hype or Hypo)	Commercial supply	Meat preservative	Mixed with iodine crystal to form hydriodic acid	Respiratory failure when heated due to phosphine gas production, acidic with water
Iodine crystal	Chemical supply, mixing hydrogen peroxide and iodine tincture	Water treatment, disinfectant	Mixed with Red P or hype to form hydriodic acid	Respiratory irritant, , skin irritant, birth defects, internal organ effects
Iodine tincture	Stores and supply warehouses	Livestock Disinfectant	Added to hydrogen peroxide to form iodine crystal	Skin and respiratory irritant
Lithium metal	Stores and supply warehouses	Batteries	NAZI and One Pot meth labs	Respiratory damage, burns, explosive in water
Lye- Sodium hydroxide	Stores and supply warehouses	Drain cleaner	Changing meth to an oil for extraction with organic solvent	Skin burns, damaging to eyes, respiratory irritant
Magnesium sulfate (Epsom salt)	Stores and supply warehouses	Skin treatment	Drying agent when gassing methamphetamine	Minor skin irritant
Naphtha	Retail stores	Solvent	Extracting meth oil	Skin irritant, respiratory irritant
Pseudoephedrine	Stores and supply warehouses	Cold medicine	Base precursor	Only if abused in high quantities
Red phosphorous	Matchbook striker plates	Fireworks chemistry	Mixed with iodine crystal to form hydriodic acid	Inhalation irritant, produces phosphine gas when super-heated, explosive with extreme heat
Sulfuric acid	Stores and supply warehouses	Drain cleaner	Gassing meth to the crystal form	Extremely destructive to skin eyes and lungs

Possible Chemicals in clandestine Fentanyl Labs	
Chemical	AKA and DEA Sourcing
Anillin	
1-Benzyl-4-piperidone	
2-Chloroethylbenzene	
Methyl acrylate	
Phenethylamine	
N-(1-phenethyl)-piperidin-4-one	NPP- List one chemical
2-phenyl-1-bromoethane	
N-(4-piperidinyl) aniline	
Propionic anhydride	
Propionyl chloride	
N-(1-phenethyl-4-piperidinyl) aniline	ANPP- List one chemical

### AIR MONITOR READINGS

**O<sub>2</sub>- Oxygen**- normal 20.9 any change should be a concern

**VOC**- Volatile Organic Compound. Normal 0, any thin more is a concern

**LEL**- Lower Explosive Level. Normal is 0. Anything else is a concern.

**PH<sub>3</sub>**- Phosphine. Normal is 0

**NH<sub>3</sub>**- Ammonia, normal is 0

**HCl**- Hydrochloric acid, normal is 0

**\*\*\*\* ALWAYS USE AIR MONITOR\*\*\*\***

Marihuana 'Honey' Lab Chemicals
Butane
Liquid Carbon Dioxide
Acetone
Ether

### PPE Levels and Equipment

LEVEL	SCBA	APR	CHEM-SUIT	TAPE	Air Monitor
A	X		x-encap	Never	X
B	X		x-chem	X	X
C		X	x-chem	X-choice	X

### SUGGESTIONS FOR LEVELS OF PPE

Likely Safety Concerns	Red P Lab	Hype Lab	NAZI Lab	One Pot Lab	Fentanyl Operation	Heroin Operation	'Honey' lab	Grow Operation
Contaminated atmosphere	X	X	X	X	X	X	X	X
Fire and explosion	X	X	X	X	Possible	Possible	X	Unlikely
<b>PPE</b>								
Initial Assessment	B or A	B or A	B or A Thermal	B or A Thermal	A	A	B Thermal	B
Air Quality cleared	B	B	B	B	A or B	A or B	B OR C	B OR C

**X**- Safety concern exists

**Possible**- Safety risk exists but will depend on if the location is manufacturing or mixing finished drugs

**B or A**- Level B is more common may if the IC/SO chooses additional protection, then A.

**B or C**- Level B PPE is best but if air quality shows no threat then the IC/SO may decrease Level of PPE to C.

**B or A/ Thermal**- A high risk of flash, fire, explosion or fire engulfment exists. Use of thermal suits are appropriate.

**Always err on the side of caution when deciding on PPE Levels. Follow your ERP protocols.**