

Extremely Hazardous Materials List

The list below contains extremely hazardous chemicals and pathogens/toxins identified by the EPA, CDC, and OSHA in order for the EH&S Department to adequately monitor the chemicals on this list. Email notifications shall be submitted to [EH&S](#) prior to purchasing the materials identified on this list.

Chemical Name

CAS#

Extremely Hazardous Materials List

Barium cyanide

542-62-1

Hazardous Materials List

	298-04-4	P039
	541-53-7	P049
	115-29-7	EPA Extremely Hazardous Substance
	115-29-7	P050
	145-73-3	P088
	72-20-8	P051
	51-43-4	P042
	107-12-0	P101
	371-62-0	EPA Extremely Hazardous Substance
	75-21-8	Carcinogen
	151-56-4	P054
	51-56-4	Carcinogen
Famphur	52-85-7	P097
Fluorine	778241-re	

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Metolcarb.	112941-5	P190
Mexacarbate.	3158-4	P128
Monocrotophos	692322-4	EPA Extremely Hazardous Substance
Muscimol	276396-4	P007
Nickel carbonyl	1346339-3	P073
Nickel cyanide	557-19-7	P074
Nicotine, & salts	54-11-5	P075
Nitric oxide	1010243-9	P076
Nitrogen dioxide	1010244-0	P078
Nitroglycerine (R)	55-63-0	P081
N-Nitrosodiemthylamine	62-75-9	Carcinogen; P082
N-Nitrosomethylvinylamine	454940-0	P084
Organomercury compounds		HIGHLY TOXIC; OSHA Table Z
Organorhodium complex		EPA Extremely Hazardous Substance
Osmium tetroxide	2081612-0	P087
Oxamyl.	2313522-0	P194
Paraquat	191042-5	EPA Extremely Hazardous Substance
Paraquat methosulfate	207450-2	EPA Extremely Hazardous Substance
Parathion	56-38-2	P089

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Biovar	*	Pasteur strain
Botulinum neurotoxins*		
Botulinum neurotoxin producing species of		
Conotoxins (Short, paralytic alpha conotoxin containing the following amino acid sequence X ₁ CCX ₂ PACGXX ₃ X ₄ X ₅ CX ₆) ¹		Hendra virus
		Nipah virus
Crimean Congo haemorrhagic fever virus		Rift Valley fever virus
Diacetoxyscirpenol		Venezuelan equine encephalitis virus
Eastern Equine Encephalitis virus		
Ebola virus*		
		USDA SELECT AGENTS AND TOXINS
Lassa fever virus		African horse sickness virus
Lujo virus		African swine fever virus
Marburg virus*		Avian influenza virus
Monkeypox virus ³		Classical swine fever virus
Reconstructed replication competent forms of the		Foot-and-mouth disease virus*
1918 pandemic influenza virus containing a portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus)		Goat pox virus
Ricin		Lumpy skin disease virus
SARS associated coronavirus (SARS-CoV)		Newcastle disease virus ^{2,3}
Saxitoxin		Peste des petits ruminants virus
South American Haemorrhagic Fever virus		Rinderpest virus*
Chapare		Sheep pox virus
Guanarito		Swine vesicular disease virus
Junin		
Machupo		USDA PLANT PROTECTION AND QUARANTINE (PPQ)
Sabia		SELECT AGENTS AND TOXINS
Staphylococcal enterotoxins A,B,C,D,E subtypes		<i>M</i>
T-2 toxin		<i>M</i>
Tetrodotoxin		<i>M</i>
Tickborne encephalitis complex (flavi) virus		
Far Eastern subtype		
Siberian subtype		
Kyasanur Forest disease virus		
Omsk hemorrhagic fever virus		
Variola major virus (Smallpox virus)*		
Variola minor virus (Alastrim)*		

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*Denotes Tier 1 Agent

¹ C = Cysteine residues are all present as disulfides, with the 1st and 3rd Cysteine, and the 2nd and 4th Cysteine forming specific disulfide bridges; The consensus sequence includes known toxins -MI and -GI (shown above) as well as -GIA, Ac1.1a, -CnIA, -CnIB; X1 = any amino acid(s) or Des; X2 = Asparagine or Histidine; P = Proline; Alanine; G = Glycine; X3 = Arginine or Lysine; X4 = Asparagine, Histidine, Lysine, Arginine, Tyrosine, Phenylalanine or Tryptophan; X5 = Tyrosine, Phenylalanine, Tryptophan; X6 = Serine, Threonine, Glutamate, Aspartate, Glutamine, or Asparagine; X7 = Any amino acid(s) or Des X and; "Des X" = "an amino acid does not have to be present at this position." For example if a peptide sequence were XCCHPA then the peptide CCHPA would be designated as Des.

² A virulent Newcastle disease virus (avian paramyxovirus serotype 1) has an intracerebral pathogenicity index in day old chicks (*Gallus gallus*) of 0.7 or greater or has an amino acid sequence at the fusion (F) protein cleavage site that is consistent with virulent strains of Newcastle disease virus. A failure to detect a cleavage site that is consistent with virulent strains does not confirm the absence of a virulent virus.

³ Select agents that meet any of the following criteria are excluded from the requirements of this part: Any low pathogenic strains of avian influenza virus, South American genotype of eastern equine encephalitis virus, west African clade of Monkeypox viruses, any strain of Newcastle disease virus which does not meet the criteria for virulent Newcastle disease virus, all subspecies *Mycoplasma capricolum* except subspecies *capripneumoniae* (contagious caprine pleuropneumonia), all subspecies *Mycoplasma mycoides* except subspecies *mycoides subspecies mycoides* (Mmm SC) (contagious bovine pleuropneumonia), and any subtypes of Venezuelan equine encephalitis virus except for Subtypes IAB or IC, provided that the individual or entity can verify that the agent is within the exclusion category.