

Name of Extraordinarily Hazardous Substance (EHS)	CAS #	Threshold Quantity in Pounds
Ozone	10028-15-6	15
Pentaborane	19624-22-7	15
*Perchloromethyl mercaptan	7616-94-6	2,900
Perchloryl fluoride	7803-51-2	30
*Phosphine	7803-51-2	30
Phosphorus trifluoride	7783-53-3	4,000
*Phosphoryl chloride	10025-87-3	800
Propylamine	107-10-8	11,000
Selenium hexafluoride	7783-79-1	700
Stibine	7803-52-3	250
*Sulfur dioxide (SO ₂) 10 percent by volume or more SO ₂	7446-09-5	4,600
Sulfur monochloride	10025-67-9	2,800
Sulfur pentafluoride	5714-22-7	175
*Sulfur tetrafluoride	7783-60-0	150
*Sulfur trioxide	7446-11-9	500
Sulfuryl fluoride	2699-79-8	22,000
Tellurium hexafluoride	7783-80-4	175
Tetrafluorohydrazine	10036-47-2	3,800
*Tetramethyl lead	75-74-1	800
*Tetranitromethane	509-14-8	900
Thionyl chloride	7719-09-7	250
*Titanium tetrachloride	7750-45-0	600
*Trichlorosilane	10025-78-2	2,700
*Trifluorochloroethylene	79-38-9	7,300
Trimethoxysilane	2487-90-3	1,100
*Trimethylamine	75-50-3	11,000
*Trimethylchlorosilane	75-77-4	1,400
Vinyl trichlorosilane	75-94-5	7,700

*EHS also listed in Part B or Part C as of June 18, 1998. Some may appear with different Federal thresholds or concentrations.

Part B

40 CFR 68.130 Table 1 (and 2) incorporated by reference
Part C

40 CFR 68.130 Table 3 (and 4) incorporated by reference with the exception of propane (CAS No. 74-98-6), propylene (CAS No. 115-07-1), butanes (normal butane (CAS No. 106-97-8) or isobutane (CAS No. 75-28-5), and butylenes (1-butene (CAS No. 106-98-9, 2-butene (CAS No. 107-01-7), butene (CAS No. 25167-67-3), 2-butene-cis (CAS No. 590-18-1), 2-butene-trans (CAS No. 624-64-6), and 2-methylpropene (CAS No. 115-11-7)).

Part D

Group I

List of Individual Reactive Hazard Substances

Substance	CAS #	Threshold Quantity (pounds)	Basis for Listing
1. Acetyl Peroxide	110-22-5	2,500	c
2. Butyl Hydroperoxide tertiary	75-91-2	2,500	c
3. Butyl hypochlorite tertiary	none	2,500	b
4. Calcium dithionite or Calcium hydrosulfite	15512-36-4	5,000	b
5. Chlorodinitrobenzenes	97-00-7	2,500	d, c
6. Cumene Hydroperoxide	80-15-9	2,500	c
7. Dibenzoyl peroxide	94-36-0	2,500	f
8. Diethyl Peroxide	628-37-5	2,500	c
9. Diisopropyl Peroxydicarbonate	105-64-6	2,500	c
10. Dinitro phenol, dry or wet, less than 15 percent water as 2,4	51-28-5	2,500	a
11. Dinitro resourcinol (wetted with not less than 15 percent water)	35860-81-6	2,500	a
12. Dipicryl sulfide	2217-06-3	2,500	a
13. Di-tert-butyl Peroxide	110-05-4	2,500	c
14. Divinyl Acetylene	821-08-9	2,500	c
15. Ethyl Nitrate	625-58-1	2,500	c, c
16. Ethyl Nitrite (solutions)	109-95-5	2,500	d, c
17. Isosorbide dinitrate	88-33-2	2,500	a
18. Magnesium diamide	7803-54-4	2,500	b
19. m-Dinitrobenzene	99-65-0	2,500	d
20. Nitroglycerine (alcohol solution)	55-63-0	2,500	c
21. Nitromethane	75-52-5	2,500	d, c
22. o-Dinitrobenzene	528-29-0	2,500	c
23. p-Dinitrobenzene	100-25-4	2,500	d
24. Peracetic acid (greater than 56 percent peracetic acid)	79-21-0	2,500	d, c
25. Picric acid (wet, with not less than 10 percent water)	88-89-1	2,500	d
26. Potassium dithionite or Potassium hydrosulfite	14293-73-3	5,000	b
27. Propargyl bromide (3 Bromopropyne)	106-96-7	2,500	d, c
28. Silver picrate wetted with not less than 30 percent water	146-84-9	2,500	a
29. Sodium dithionite or Sodium hydrosulfite	7775-14-6	5,000	b
30. Trinitro benzene as 1,3,5 (wetted not less than 30 percent water)	99-35-4	2,500	a

Basis for listing:

- a = DOT 4.1
- b = DOT 4.2
- c = DOT 4.3
- d = NFPA 49
- e = NFPA 325
- f = NFPA 432

Part D
Group II

Reactive Hazard Substance Mixtures Functional Groups

(For Threshold Quantity Determination
See N.J.A.C. 7:31-6.3(b) and (c))

Functional Group(s)	Reactive Substance Class		
1. $-C\equiv C-$	Acetylenic compounds	25. $-O-O-M$	Metal peroxides, peroxyacid salts
2. $-C\equiv C-M$	Metal acetylides	EOO'	
3. $-C\equiv C-X$	Haloacetylene derivatives	MOO'	
$\begin{array}{c} N=N \\ \diagdown \quad / \\ C \end{array}$	Diazirines	26. $-O-O-E$	Peroxoacids, peroxyesters
4. CN_2	Diazo compounds	27. $H_3N\rightarrow Cr-OO-$	Amminechromium peroxocomplexes
5. $-C-N=O$	Nitroso compounds	28. $-N_3$	Azides (acyl, halogen, nonmetal, organic)
$-N-N=O$		29. $\overline{C-N_2^+O^-}$	Arenediazonium oxides
6. $-C-NO_2$	Nitroalkanes, C-nitro and	30. $-C-N_2^+S^-$	Diazonium sulfides and derivatives, "Xanthates"
$Ar-NO_2$, $Ar(NO_2)_n$	Nitroaryl and Polynitroaryl compounds	31. N^+HZ^-	Hydrazinium salts
$C(NO_2)_n$	Polynitroalkyl compounds	$N^+EO_n^-$	Oxosalts of nitrogenous bases
$O_2NC-CNO_2$		32. $-N^+-OH Z^-$	Hydroxylaminium salts
$HC[OCH_2C(NO_2)_2]_3$	Trinitroethyl orthoesters	33. $-C-N_2^+Z^-$	Diazonium carboxylates or salts
$C[OCH_2(NO_2)_2]_4$		34. $[N\rightarrow Metal]^+ Z^-$	Ammine-metal oxosalts
7. $-C-O-N=O$	Acyl or alkyl nitrites	35. $Ar-Metal-X$	Halo-arylmetsals
8. $-C-O-NO_2$	Acyl or alkyl nitrates	$X-Ar-Metal$	Haloarenemetal p-complexes
9. $\begin{array}{c} C-C \\ \diagup \quad \diagdown \\ O \end{array}$	1,2-Epoxides	36. $-N-X$	Halogen azides
10. $MC\equiv N\rightarrow O$	Metal fulminates or	XN_3	N-halogen compounds
$C=N-O-M$	aci-nitro salts, oximates	$\begin{array}{c} O \quad X \quad O \\ \quad \quad \\ -C-N-C- \end{array}$	N-haloumides
11. NO_2	Fluorodinitromethyl compounds	37. $-N-F_2$	Difluoroamino compounds
$\begin{array}{c} \\ -C-F \\ \\ NO_2 \end{array}$		$-C(NF)NF_2$	<i>N,N,N</i> -trifluoroalkylamidines
12. $-N-M$	N-metal derivatives	38. $N-O-$	N-O compounds
13. $-N=Hg^+=N-$	Poly(dimercuryimmonium salts)	39. $-O-X$	Hypohalites
14. $-N-NO_2$	N-nitro compounds	XO_n	Halogen oxides
15. $=N^+-N-NO_2$	N-Azoliium nitroimdates	$-Cl-O_3$	Perchloryl compounds
16. $-C-N=N-C-$	Azo compounds	ClO_2^-	Chlorite salts
17. $Ar-N=N-O-R$	Arenediazoates	$R-O-Cl-O_3$	Alkyl perchlorates
18. $ArN=N-S-Ar$	Arenediazo aryl sulfides	$RN^+H_3ClO_4^-$	Aminium perchlorates
19. $Ar-N=N-O-N=N-Ar$	Bis(arenediazo) oxides	40. $\left(\begin{array}{c} \\ -CH-CH- \\ \quad \\ n \end{array} \right)_n$	Polymerization, alkene polymers and monomers thereof ^{†*}
20. $Ar-N=N-S-N=N-Ar$	Bis(arenediazo) sulfides	$\left(\begin{array}{c} \\ -C-C- \\ \quad \\ n \end{array} \right)_n$	
21. $\exists C-N=N-N-C \exists$	Trizenes	$\left(\begin{array}{c} \\ -C-C- \\ \quad \\ n \end{array} \right)_n$	
$\begin{array}{c} \\ R \end{array}$		41. $\left(\begin{array}{c} \\ -C-C- \\ \quad \\ n \end{array} \right)_n$	Polymerization, polyamide polymers and monomers thereof
(R=H, CN, OH, NO)		$\left(\begin{array}{c} \\ -C-C- \\ \quad \\ n \end{array} \right)_n$	
22. $-N=N-N=N-$	High-nitrogen compounds	42. $\left(\begin{array}{c} \\ -C-C- \\ \quad \\ n \end{array} \right)_n$	Polymerization, polyester polymers and monomers thereof
$\overline{N=N=N-N=C}$	Tetrazoles		
23. $-C-O-O-H$	Alkylhydroperoxides	43. $S_2O_4^{2-}$	Dithionites
$\begin{array}{c} O \\ \\ R-C-O-OH \end{array}$	Peroxyacids		
24. $-C-O-O-C-$	Peroxides (cyclic, diacyl, dialkyl), peroxyesters		
$\begin{array}{c} O \\ \\ -C-O-OR \end{array}$			

Abbreviations: Ar = aromatic (benzene); M = metal; R = organic chain; X = halogen; E = nonmetal; Z = anion; n = integer variable; all other abbreviations are for the element symbols from the periodic table of elements

Note: Not all chemical bond symbols are shown.