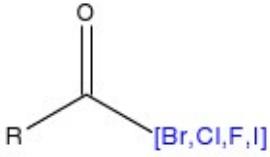
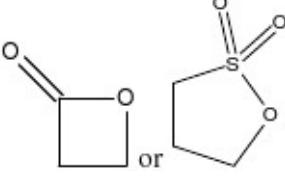
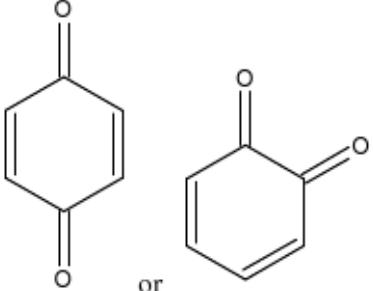
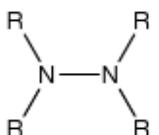
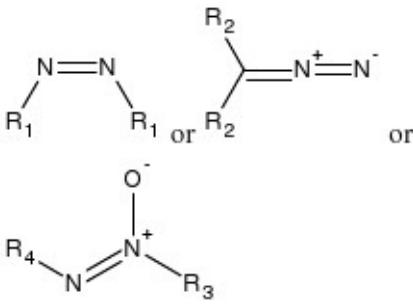
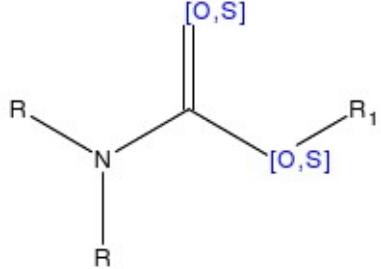
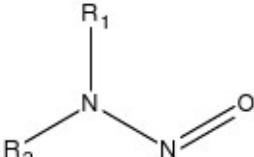
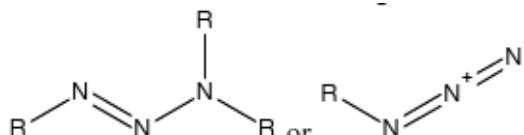
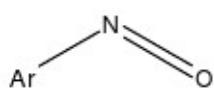
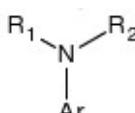
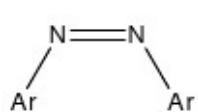
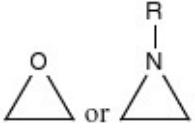
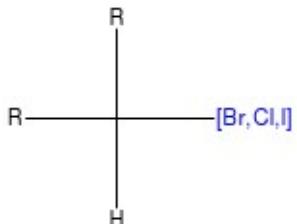
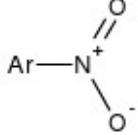


1 st SAs RULESET	
Structural Alert	SMARTS or details
SA_1: Acyl halides 	[!\$([OH1,SH1])C(=O)[Br,Cl,F,I]
R = any atom/group, except OH, SH	
SA_6: Propiolactones or propiosultones 	[O,S]=C1[O,S]CC1 OR O=S1(=O)(CCC01)
SA_12: Quinones 	O=[#6]1[#6]=,:[#6][#6](=O)[#6]=,:[#6]1 OR O=[#6]1[#6]=,:[#6][#6]=,:[#6][#6]1(=O)
R = any atom/group	
SA_13: Hydrazine 	[N+0]!@;- [N+0](=[!0;!N]) OR [N+0]([#1,*])!@;- [N+0]([#1,*])

1 st SAs RULESET	
Structural Alert	SMARTS or details
SA_14: Aliphatic azo and azoxy  R1 = Aliphatic carbon or hydrogen R2, R3 = Any atom/group R4 = Aliphatic carbon	$[C,\#1]N=[NX2][C,\#1]$ OR $[$(C=[N+]=[N-]); !$(C=[N+]=[N-]=N); !$ (C=[N+]=[N-]N)]$ OR $C=[$(N=N); !$(N=N=N); !$ (N=NN)]$ OR $CN=NO$
SA_16: alkyl carbamate and thiocarbamate  R = Aliphatic carbon or hydrogen R1 = Aliphatic carbon	$[NX3]([CX4,\#1])([CX4,\#1])C(=[O,S])[O,S][CX4]$
SA_18: Polycyclic Aromatic Hydrocarbons	Three or more fused rings, not heteroaromatic

1 st SAs RULESET	
Structural Alert	SMARTS or details
SA_21: alkyl and aryl N-nitroso groups  R1 = Aliphatic or aromatic carbon, R2 = Any atom/group	[C,c]N[NX2;v3]=0
SA_22: azide and triazene groups  R = Any atom/group	[N]=[N]-[N] OR [N]=[N]=[N]
SA_25: aromatic nitroso group  Ar = Any aromatic/heteroaromatic ring	
SA_28bis: Aromatic mono- and dialkylamine  Ar = Any aromatic/heteroaromatic ring R1 = Hydrogen, methyl, ethyl R2 = Methyl, ethyl	<ul style="list-style-type: none"> Chemicals with ortho-disubstitution, or with an ortho carboxylic acid substituent are excluded. Chemicals with a sulfonic acid group (-SO3H) on the same ring of the amino group are excluded .
SA_29: Aromatic diazo  Ar = Any aromatic/heteroaromatic ring	<ul style="list-style-type: none"> Chemicals with a sulfonic acid group (-SO3H) on both rings linked to the diazo group are excluded.

2 nd SAs RULESET	
Structural Alert	SMARTS or details
SA_7:Epoxides and aziridines  R = any atom/group	C1[0,N]C1
SA_8: Aliphatic halogens  R = any atom/group	
SA_19: Heterocyclic Polycyclic Aromatic Hydrocarbons	Three or more fused rings, heteroaromatic
SA_27: Nitro-aromatic  Ar = Any aromatic/heteroaromatic ring	<ul style="list-style-type: none"> Chemicals with ortho-disubstitution, or with an ortho carboxylic acid substituent are excluded. Chemicals with a sulfonic acid group (-SO₃H) on the same ring of the nitro group are excluded .