

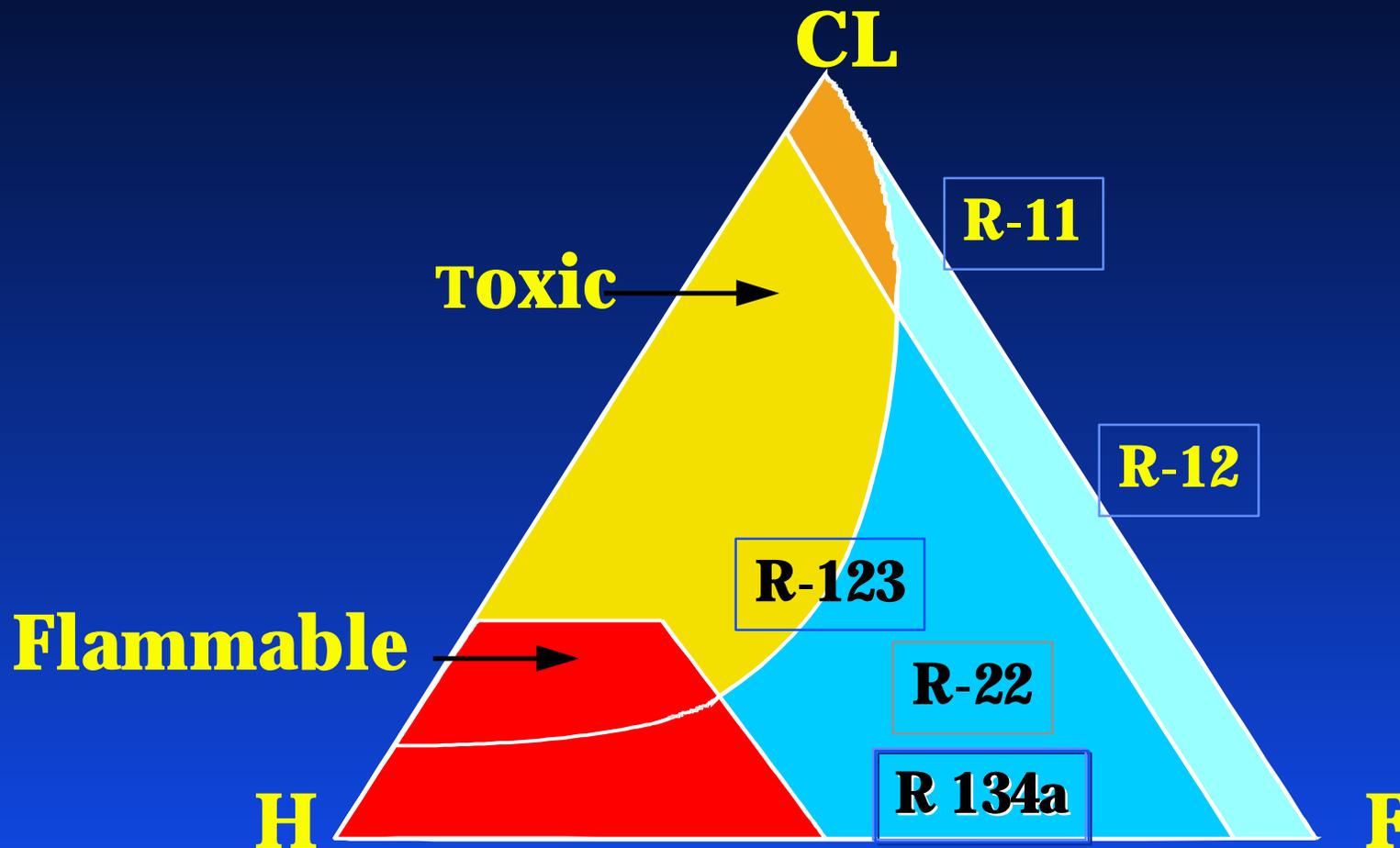
PERIODIC TABLE OF THE ELEMENTS

Basic Elements & Refrigerant Compounds

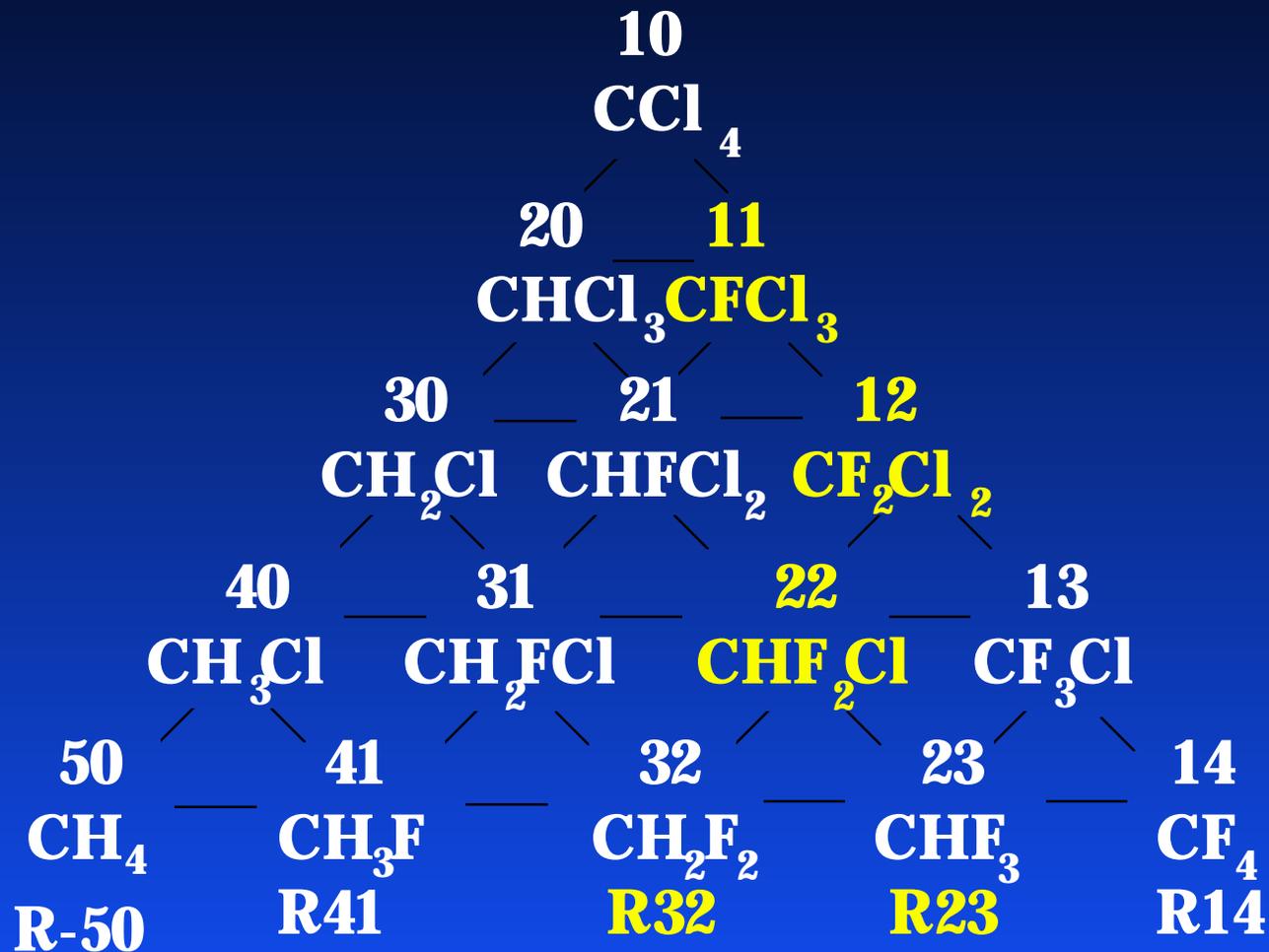
- Refrigerant Possibilities
- Unstable, Manmade or Radioactive & Rare
- Tend to Form Solids
- Does Not React
- Toxic or Unstable (Reactive)

H																	H	He
Li	Be											B	C	N	O	F	Ne	
Na	Mg											Al	Si	P	S	Cl	Ar	
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Ar	
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	
Fr	Ra	Ac																
			Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu		
			Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr		

TRADE-OFF AMONG THE PROPERTIES OF REFRIGERANTS



DERIVATIVES OF METHANE (CH₄)



DERIVATIVES OF ETHANE (C₂H₆)



HFC AZEOTROPE/BLEND EXAMPLES

<u>Company Name</u>			<u>Mixtures</u>	<u>Type</u>
Allied Signal	AZ20 AZ50	R-410a R-507	HFC32, 125 HFC125, 143a	Azeotrope Azeotrope
DuPont	HP62 AC9000	R-404a R-407c	HFC125,143a,134a HFC32, 125, 134a	Blend Blend
ICI	66	R-407b	HFC32,125,134a	Blend