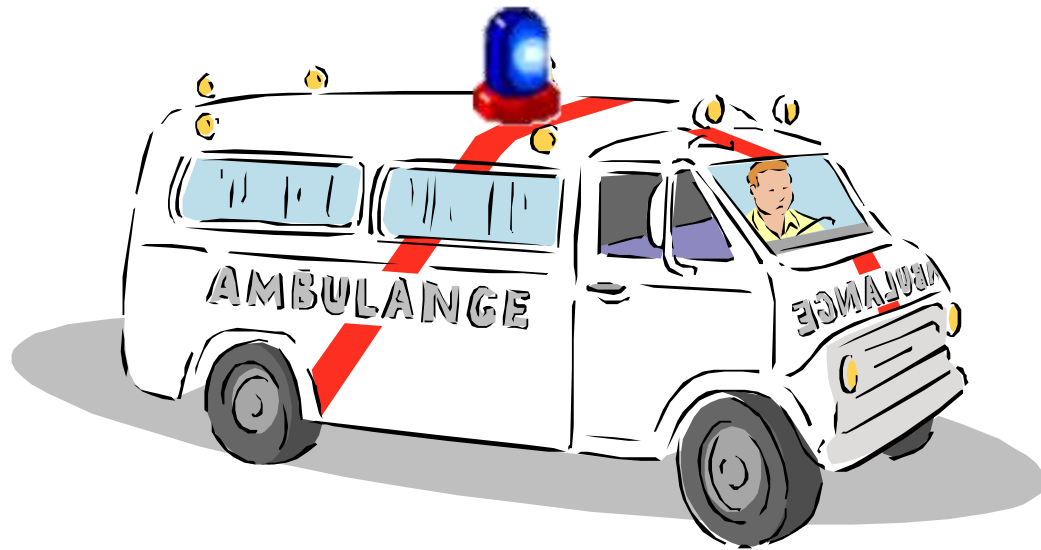


SAFETY FIRST

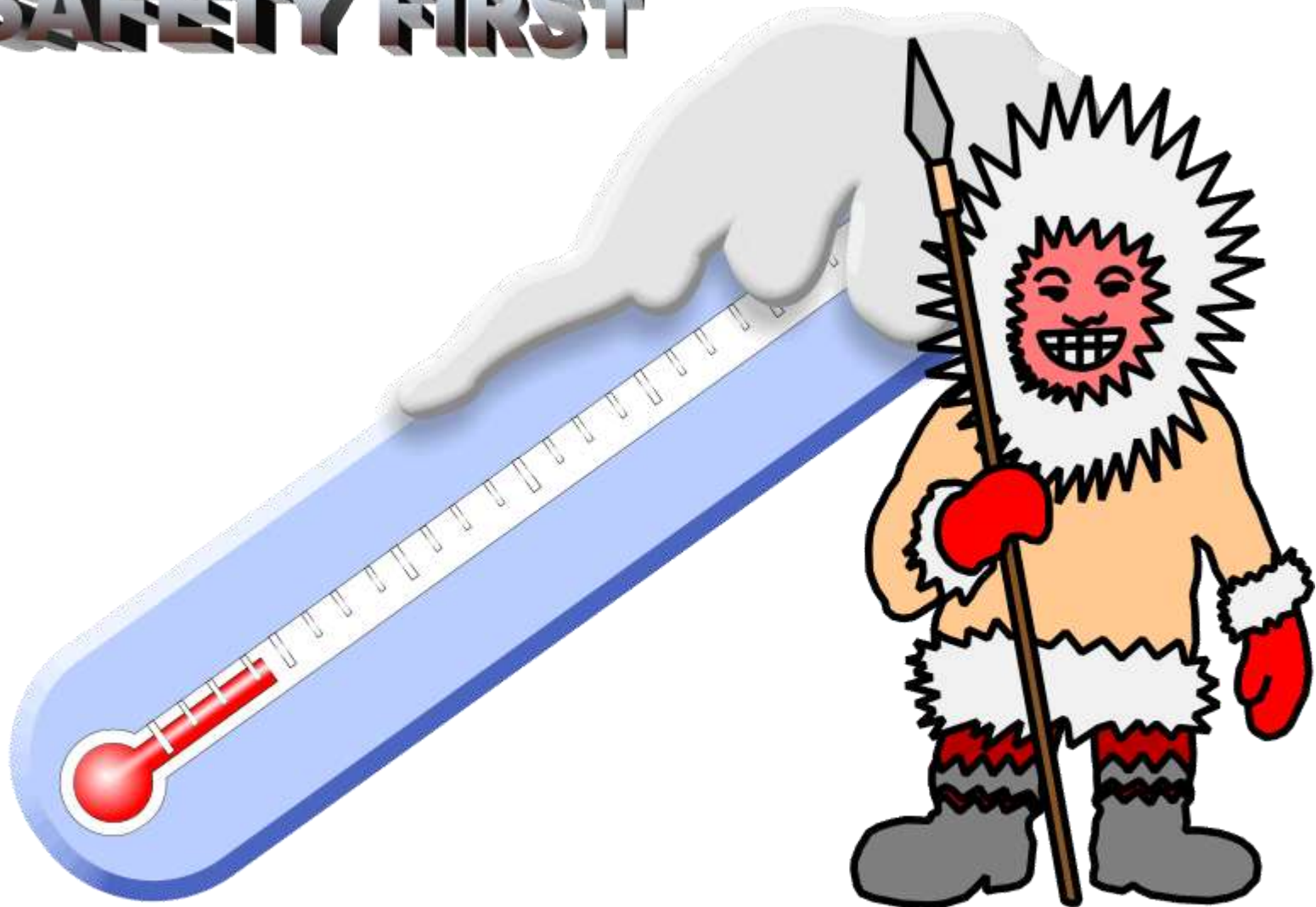


Please read the safety part in the manual

because
we don't want



SAFETY FIRST



IF YOU THINK - 40°C IS COLD.....



	Kelvin	Celsius	Fahrenheit
Our Sun	6000	5727	10445
Carbon Boils	5100	4827	8808
Carbon Melts	3825	3552	6490
Iron Boils A Cool Red Star	3023	2750	5032
	3000	2727	4990
Iron Melts	1808	1535	2823
Water Boils	373	100	212
Water Freezes	273	0	32
Oxygen Boils	90	-183	
Oxygen Melts	55	-218	
Absolute Zero	0	-273	-459

SPC-1
73 K stage

SPC-1T
80 K
20 K

← This is the temperature range of Cryogenic

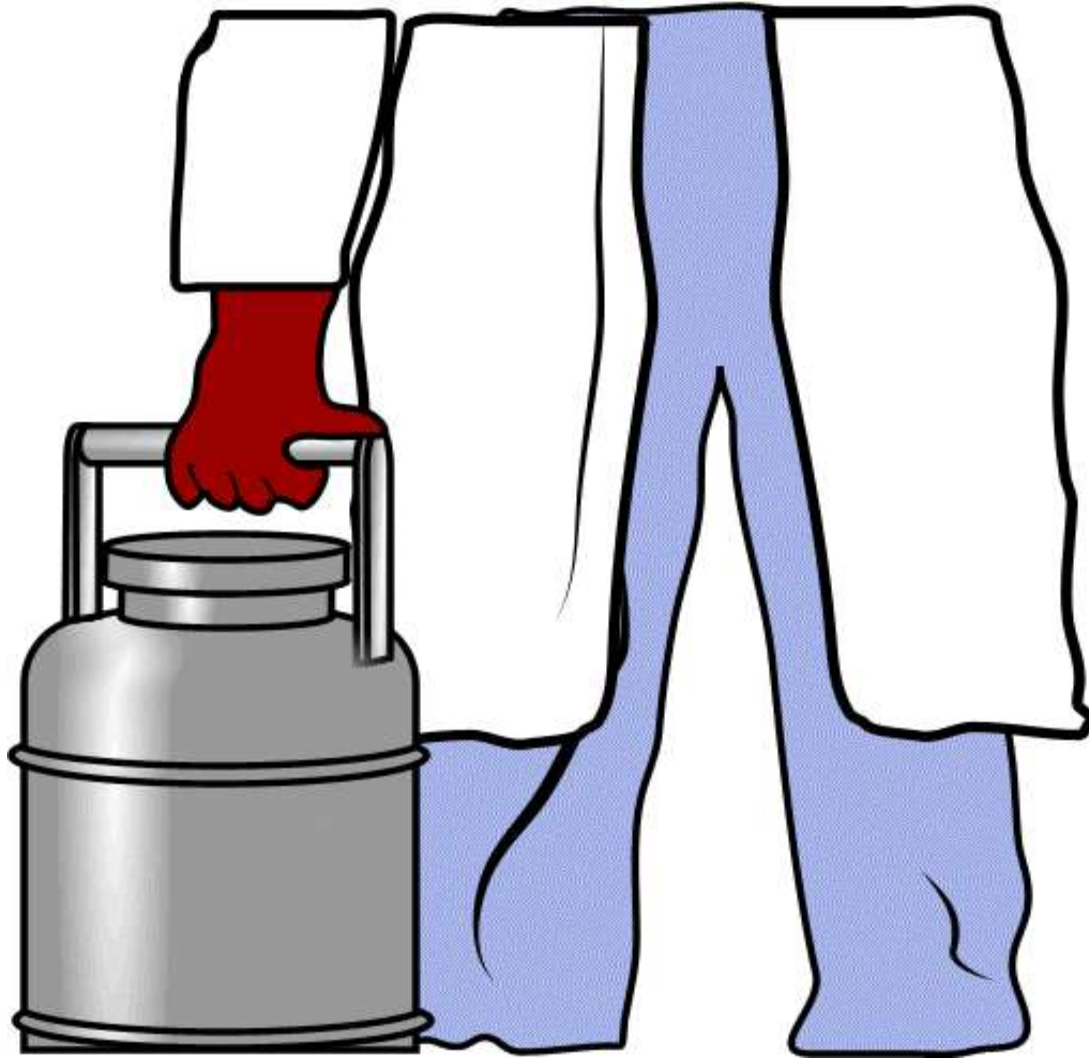
SAFETY FIRST



SAFETY FIRST



SAFETY FIRST



Cryogenic liquids can boil.....

SAFETY FIRST



SAFETY FIRST



Cryogenic liquids can boil.....

SAFETY FIRST

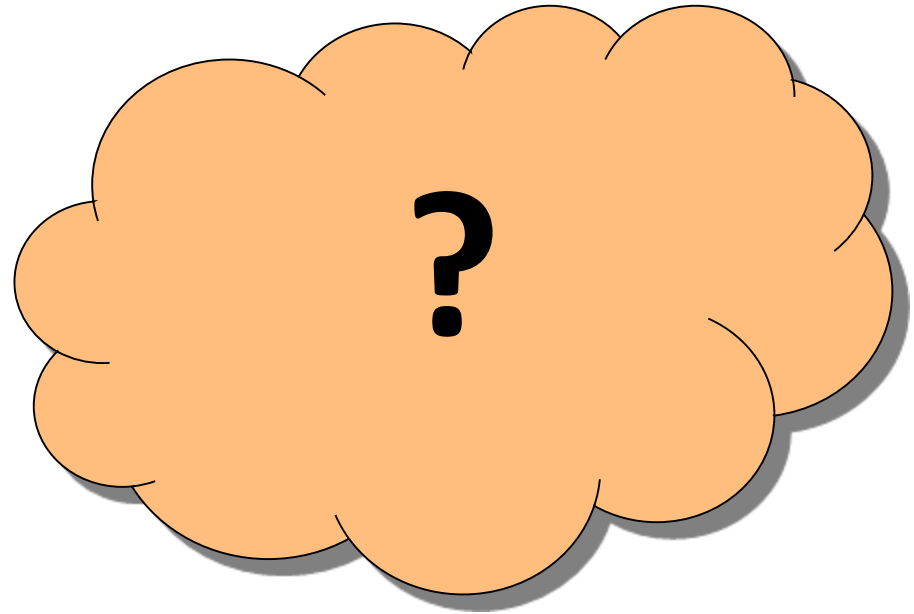
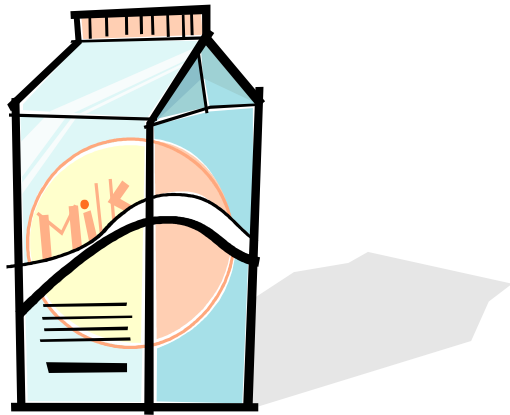


SAFETY FIRST



Cryogenic liquids can burn.....

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One liter liquid Helium!

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700 litre gas!



SAFETY FIRST

Example:



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Helium Characteristics

colourless

non-toxic

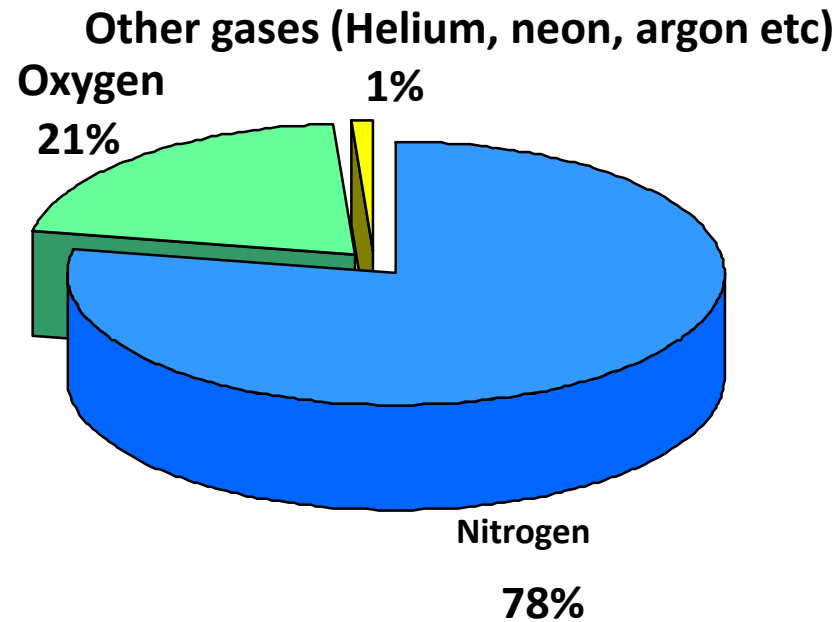
lighter than air

does not support life

inert gas

non-corrosive

asphyxiant



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Danger of asphyxiation

Oxygen component of air is essential to life

Oxygen component below 21%>oxygen deficiency

Symptoms of asphyxia:

rapid breathing

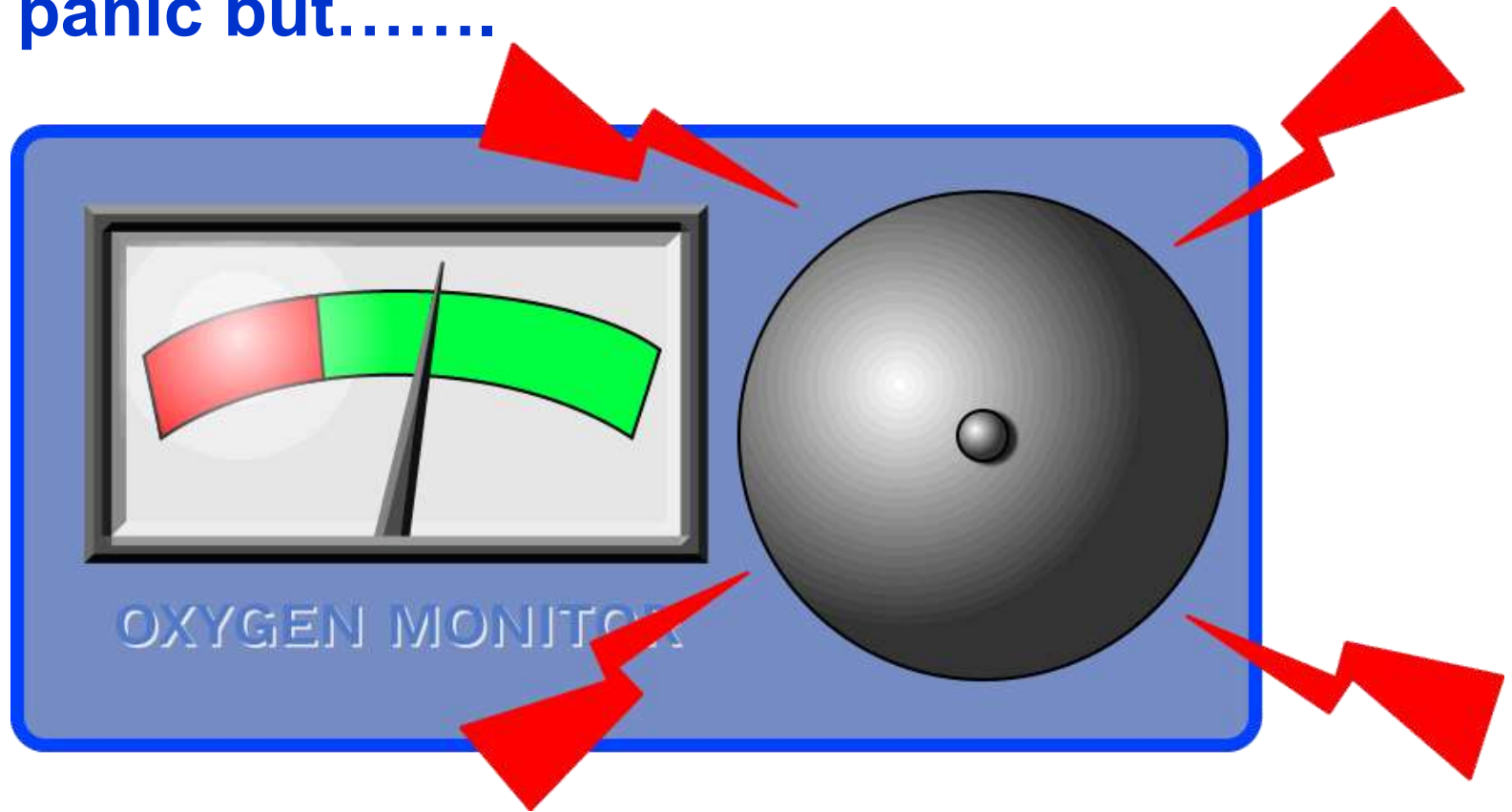
rapid fatigue

nausea and vomiting

blueness of the skin

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No panic but.....



....in small spaces survey your environment.

SAFETY FIRST

If in doubt.....



SAFETY FIRST

If necessary.....

