SUMMARY

BUSTING THE FLAMMABILITY MYTH BETWEEN
CHEMICAL FLUOROCARBON REFRIGERANTS,
(R32 & 410A)
AND
NATURAL HYDROCARBON REFRIGERANTS,
(ENGAS PRODUCTS)

March 2026

NOTE: ALL AIR-CONDITIONING REFRIGERANTS BURN!

When a chemical or natural Hydrocarbon refrigerant is installed into an Air-conditioner, it is immediately mixed with oil inside the Air-conditioner. (Minor Air-Conditioner exceptions!)

Should any Air-conditioner leak near a power source, the refrigerant may ignite and burn.

The combined oil/refrigerant in the Air-conditioner is what burns! (Oil is the first to ignite as it has the lower Auto ignition temperature!), (260 degrees Celsius).

Hydrocarbon refrigerants have a lower auto-ignition temperature. (460 degrees Celsius)

Chemical Refrigerants, (R32) and Natural Hydrocarbon refrigerants have the same dangerous goods classification of 2.1 – highly flammable.

The fact that manmade chemical refrigerant R32 has the same dangerous goods classification, (Flammable Gas 2) as Hydrocarbon refrigerants therefore effectively nullifying the competing focus on Hydrocarbons being more flammable.

We reference to the "Air-conditioning Expert Secrets" summary book. (Pages 45 to 52).

Should Hydrocarbon burn, the by-product is Carbon and Steam. (Not Toxic, will not hurt environment).

Should manmade Chemical Refrigerant burn, the fumes and by-products are Highly Toxic. (Very bad for the Environment and Human Health). This is another reason why Chemical Refrigerants are being phased out!

If we currently use flammable Hydrocarbon products safely with our daily activities as below:

- Air Transport,
- Vehicle Transport,
- Cooking Food, etc.,
- Deodorants and Fly Spray Cans,
- Heating Water,
- Heating Homes,
- Cooking Sprays, etc.

Why can't we use Hydrocarbons for cooling our Homes, Restaurants, Offices and Hotels, etc.?

We reference to the "Welcome to our World", slide summary. (Pages 10 to 22).

Hydrocarbons DO NOT spontaneously combust on contact with air!

All refrigerants are to be installed by a Competent Person at all times!

NOTE: All refrigerants installed in your Air-conditioner burn because they mix with oil!

ENGAS PTY LTD, Cooling the World naturally!