# **DISTRIBUTOR**

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## AIR CONDITIONING ISSUES

TO:	ALL WAREHOUSE DISTRIBUTORS
Subject:	A/C Service Issues
Models Affected:	All Passenger Car and Light Truck Models with № 12 or ■ Air Conditioning Systems
not be	e production of 12 refrigerant ended December 3 Although new material will there is a significant reserve of and along with proper recycling vill continue to be available to meet consumers needs well into the future.
■ 12 is no long the only approve taken a similar servicing multi	hould continue to be used to service vehicles built with as long as it is available. If ger available or a system retrofit utilizing is recommended. Is wed substitute refrigerant which GM recommends. All new vehicle manufacturers have position in order to protect the service industry and the consumer from the high cost of ple refrigerants and the threat of refrigerant contamination. Use of other than and its will void General Motors
drive passenger Motors retrofit	offers a simple, low cost 12 to retrofit on many of its late models, front wheel cars. Installers should discuss this capability with owners of vehicles covered by General bulletin or brochure "Guidelines For Retrofitting GM Vehicles To when an A/C refrigerant system repair is required. Installers should become the proper procedures for performing a retrofit.
regardless of an off or mixed w refrigerant pro- properly labele dedicated servi	and R-1 34a refrigerant are not interchangeable! They cannot be mixed together. In fact, my manufacturers claims no proposed substitutes can be added to, topped ith R-12. Under provisions covering the service of refrigerants, mixing dissimilar ducts during service is prohibited. All substitute refrigerant used in service must be d and installed using unique service fittings. These unique fittings mandate additional ce equipment. Recent industry sources have reported that some automotive d cause serious vehicle damage and pose a harmful threat to the technician.
Alternative Pol	ted that although the EPA has listed alternative refrigerants under the Significant New icy (SNAP) program, it does not mean these refrigerants were for performance, rability in mobile air conditioning systems.

ACD=

#### R- 12 Service Recommendations:

K- 12 S	ervice recommendations.
1.	Service vehicles with good quality new or recycled as long as available.
2.	Carefully test recovered using some type of refrigerant identifier. (On recovery equipment not protected by a refrigerant identifier, regularly test the recovery cylinder prior to recharging a
3.	Discuss retrofit option with owners of vehicles covered by General Motors Retrofit bulleting or ACDelco brochure "Guidelines For Retrofitting GM Vehicles to (MS-3644).
4.	Become with retrofit procedures and exercise care in the handling dissimilar refrigerants to prevent contamination.
5.	The use of refrigerants and oils other than and R-1 34A and Mineral and Pag oils as recommended by the vehicle manufacturer will void any ACDelco Parts warranty on A/C components.
desirable from the	prices rise, retrofitting GM and other vehicles to R-l 34A will become more le. It is very important that as retrofitting becomes a common practice that all is removed e system prior to the retrofit. Failure to do so could contaminate the R-134A equipment and y tanks when subsequent service is
If you	any questions, please contact your ACDelco sales representative.

C. G. Maciag Manager Service Training

D. L. Thompson Marketing Manager Heating ■ Cooling

## Motor Vehicle Air Conditioning Substitutes for CFC-12 Reviewed Under EPA's SNAP as of June

				A series	NA T					
				Components /Reason Unacceptable						
1)		Date	Manufacturer	HCFC-22	HCFC- 124		HFC-	(R-600)		HESS Colores
HFC-134a	ASU									
FR-12	ASU		Intefmagnetics General 800-555-1442		39		59	2		
Free RB-276 (4)	ASU	5400404	E			19	79			
	ASU		Ikon Corp.		·		•	'		'
	ASU		People's Welding 800-382-9006	55		41			4	
Chill-It (5)	ASU		People's Welding 800-382-9006	51	28.5	1,6.5			4	
Hot Shot/ K a r	<u> </u>			5 0	39	9.5			1.5	
GHG-HP (5)	ASU	1 0/1	People's Welding 800-382-9006	65		31			4	
FREEZE 12	ASU		Technical Chemical 800-527-0885			20	80			
OHO-MAD	ASU		People's Welding 800-382-9006	41		15			4	40
oz-12	UNA		o z	Flammable blend of hydrocarbons; data to safety						
R-176	UNA	CD 640-1	Arctic Chill	Contains 2, which is in a in a						
HC-12a	UNA		o z Technology	Flammable blend of hydrocarbons; insufficient data todemonstrate safety						
Duracool			Duracool Limited	This is identical to						
R-405A	UNA		Greencool	Perfluc	orocarbon com	nponent;	high glo	bal warming	and	lifetime

(made by DuPont), R-401B (DuPont), R-409A (Elf Atochem), Care 30 (Calor Gas), Add 10 (DuPont) and ES-12R (Intervest) have not been submitted for review in motor vehicle air conditioning, and it is therefore to use these refrigerants in such systems.

See text for details on legality of use according to status.

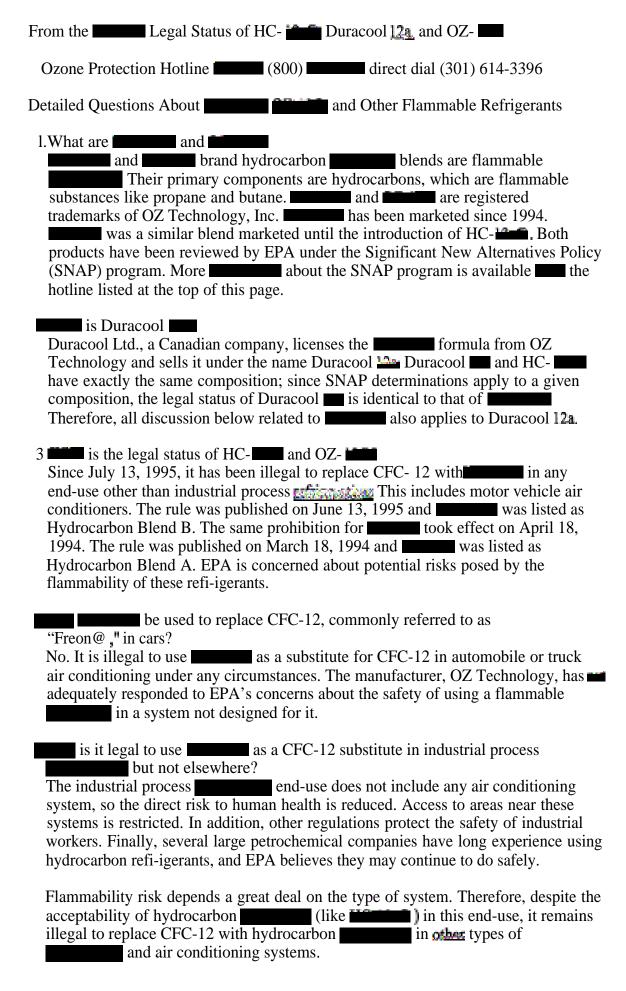
ASU = acceptable subject to fittings, labeling, no drop-in, and compressor shutoff switch usc conditions

UNA = unacceptable; illegal for use as a CFC-12 substitute in motor air

Although some blends contain hydrocarbons, all blends that are ASU are as a second as a second and a second are as a second and a second are as a second are a second are as a second are a second are

contains 2% of a lubricant.

HCFC-22 content results in an additional use condition; must be used with barrier hoses.



sale of either are or HC- legal?

Sale is not regulated under EPA's SNAP program. However, statutes and regulations issued by other federal, state, or local agencies may control the sale of these products, including illegal advertising.

be vented?

No. Since November 15, 1995, the Clean Air Act has prohibited the venting of any refrigerant during the service, maintenance, repair, or disposal of air conditioning and systems. When working on a system containing the technician must recover the

## **Open Discussion Forum**

Previous Thread || Next Thread

Sorted Posts ■ Date Sorted ■ Description

Message ■ Post a Note ■ Next Message

(to this post:	Post your response	your response
The Subject: Nightmares on the At to Tim N	ne horizon? Matthews (************************************	wrote:
Well, on my way home last nite, place. He owns a small local use course of my visit, I happened to in his backroom. I progreat length about the stuff, and	sed car lot, and in the to spot a couple cases of coceeded to question him at	

"Yeah, this is the new stuff. The EPA loves it and is recommending it highly. Now, I know you guys don't like it because you are all making so much changing over systems and gouging people on freon. But everybody is using it, the new car dealers and all. Look, it is completely environmentally friendly, and totally safe. They must have sold a few hundred cases at the auction. All we have to do is have all the old stuff sucked out, and when we bring the car back here, we just juice it up. See, the valve and hose screws right onto the top of the can, like so" as he demonstrates, "and then ya just screw the other end to the service Here, I have the paper on it here somewhere" he says, rummaging through the contents of his desk. "Well, I can't find it right now, but this stuff is the best. Even colder than freon. I've gone through a few cases already this summer. Here, you try some of it and let me know what you think"

comments here.

I proceeded to inform him that what he was doing was totally illegal, and he should desist immediately. And if he ever sent a car to my shop with this stuff in it, he'd better be kind enough to tell me But I am very concerned that he says "It's what all the car dealers are using If you are in NC, SC, or VA, LOOKOUT. No retrofittings, no signs, only lost time and money await you if you don't have and use an identifier. Think I will go in business building reclaimers on the side, and universal hookup kits, so we can start sucking the junk out at a BIG profit.

will also post this to the AC forum. Please be this stuff is EXTREMELY FLAMMABLE. Says so right on the can. It is it for any who run across the stuff. Just wanted to let know.

Tim Matthews
Technician/Manager
Automotion
North Carolina, USA

(to this post: