



Brand Assurance Anti-Counterfeiting Global Initiative

WIPO-UN-ESCAP-UNEP

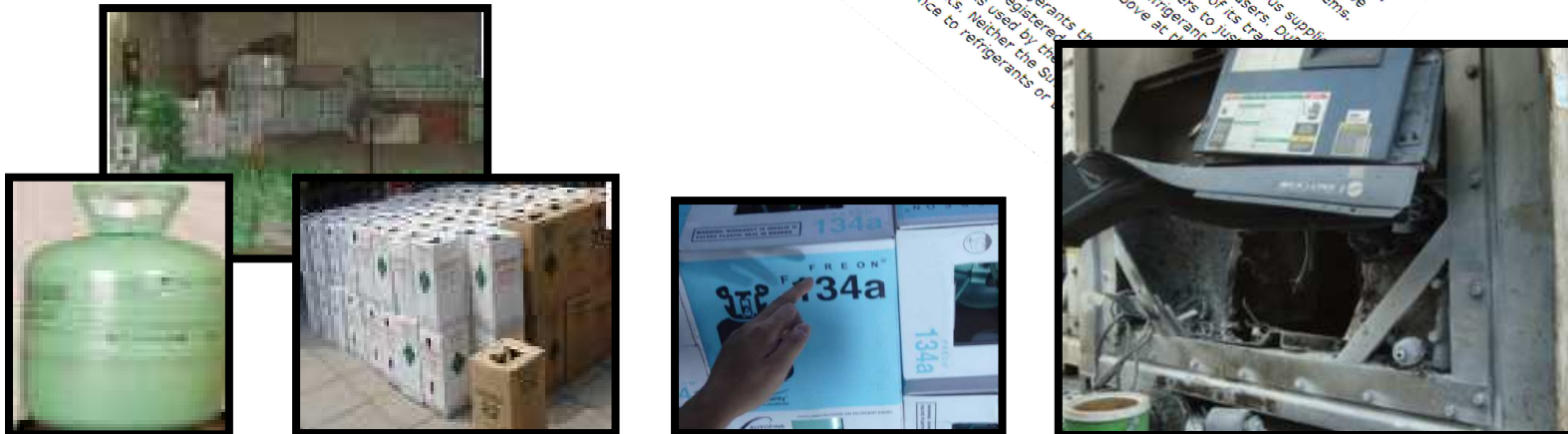
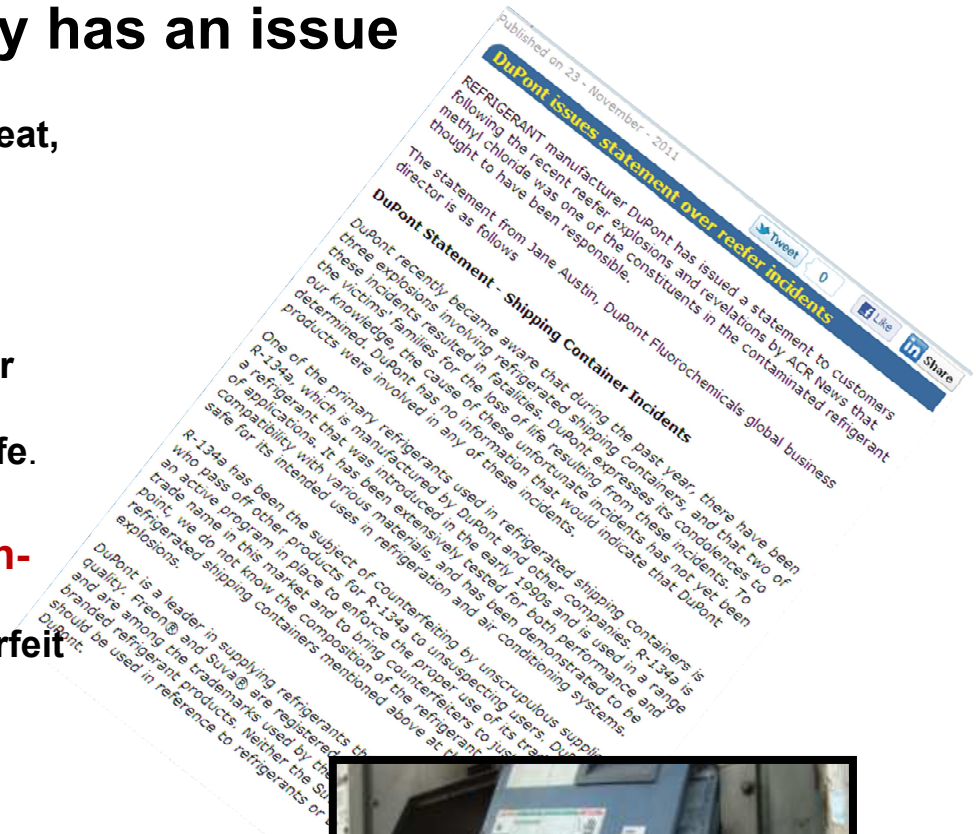
Bangkok, November 21-22, 2013

T. S. Kim

DuPont Fluorochemicals, Asia Pacific

Refrigerants: The industry has an issue

- Counterfeit refrigerants pose a global threat, can be **unsafe for use**, and can pose **quality issues** for businesses and customers.
- As was exemplified by the shipping reefer incident, counterfeit refrigerants pose an even **more significant threat**: loss of life.
- DuPont has **multiple investigations on-going** as a result of the shipping reefer incidents to find the source of the counterfeit refrigerants



April 2012

ACR News

The website for air conditioning
and refrigeration professionals

Killer gas found in illegal refrigerant seizure

A CONSIGNMENT of refrigerant seized by Russian customs contained cylinders of the dangerous methyl chloride cocktail blamed for the fatal reefer explosions last year. Rumours of the seizure first appeared in Russian newspaper reports at the end of February.

UNEP has now confirmed that customs officers at the port of Saint Petersburg seized 1150 cylinders totalling more than 19 tonnes of ozone-depleting substances.

The cylinders originated from China and were shipped by sea via Gdansk in Poland. They were declared as R134a but actually comprised 3320kg of R12, 2490kg of R113, 4980kg of R141b as well 8300kg of the dangerous R22/R40 mixture implicated in three deaths in reefer explosions last year. Investigations are ongoing.

Methyl chloride confirmed in Heatcraft recall

HEATCRAFT Australia has confirmed that the "flammable and poisonous" counterfeit refrigerant responsible for the recall of certain models of Kirby packaged refrigeration units in Australia does have methyl chloride (R40) as one of its constituents. It has also been confirmed that the suspect units were manufactured and charged with the refrigerant at its own factory in China.

Kevin Lee, Heatcraft Worldwide Refrigeration's global technical director told *ACR News* that the units which were supposed to be charged with R134a actually contained a cocktail of R22, R142b and R40. The problem first came to light through the analysis of warranty return compressors.

The units affected are the Kirby 'Drop-in' refrigeration units KPC800-6, KPC1000-6, KPC1400-6, KPC1700-6, KSC2000-6, KSC2700-6, KSC3500-6, with serial numbers 1108xxxxxx to 1202xxxxxx. The units were sold between September 1 2011 and April 10 2012 and sales were restricted to Australia with a few in New Zealand.

Heatcraft customers in Australia have advised to contact their supplier or Heatcraft directly to have the unit replaced. Under no circumstances, says the company, are the units to have the refrigerant replaced by a service technician whilst in-situ.

It was a similar cocktail containing R40 and R22 which was implicated in the deaths of three people last year when refrigerated containers they were working on exploded.



Counterfeit investigation wins TARDEC an environmental award



Counterfeit refrigerant bottle (left); legitimate refrigerant canister from reputable company (right).

UNCLASSIFIED Distribution Statement A. Approved for public release.

“In the months following, through extensive Army-wide integrated vehicle screening initiatives, ***more than 18 different refrigerants were found in military vehicles, including the toxic and reactive R-40*** which initially sparked the formation of the IPT”.

Due to the large varieties of contaminants found in the initial testing stages, a lab analysis is required to determine what mix is in the refrigerant system if it doesn't contain pure R-134a. Some mixtures require special handling and expensive disposal equipment. ***Procedures for safely repairing contaminated vehicles are currently being developed, and for now contaminated vehicles are being isolated until those procedures are validated.***

Our Actions

In 2012, we accomplished the following:

- Removed **693** internet store-front listings of counterfeit refrigerants
- Assisted law enforcement in conducting **7** raids and seizures in multiple regions
- Secured **2051** fake DACs/cans
- Conducted **9** Customs Trainings in target countries: China, Vietnam, Philippines, Dubai, South Africa, Cambodia, etc.
- Completed the implementation of Izon® hologram on all DACs worldwide
- Opened **26** investigations and closed 5 cases (3 major with \$68M compensation)



Successful Action against Counterfeiting in U.A.E.

Outcome:



- Police conducted a raid, seizing counterfeit refrigerant cylinders, machines, printing templates, and counterfeit packaging for DuPont refrigerants.
- Second raid yielded seizure of filling and printing machines.
- Counterfeiter was apprehended and sentenced to two years in prison for the crime of counterfeiting.

Successful Pursuit of Refrigerant Counterfeiter in China



Outcome:

- Defendants fined \$39,400 by Chinese Government
- Settlement agreement including compensation and future fines for any repeat offense.
- Defendants paid DuPont \$32,000 in damage as well as court costs
- Defendants issued formal public apology in China



8. US Refrigerant Manufacturer DuPont Has Announced the Seizure of 300 Cylinders of Counterfeit R134a in Hangzhou Province, China

DuPont identified Hangzhou Sporlan Heating and Refrigeration Company Ltd as a potential counterfeiter through a tip from another, unnamed, refrigerant manufacturer. A raid of Hangzhou Sporlan facilities was performed by local law enforcement authorities and counterfeit cylinders and packaging were seized. According to DuPont, the investigation confirmed that these were counterfeit refrigerant cylinders carrying the trademarks DuPont and SUVA as well as trademarks of another major manufacturer. Hangzhou Sporlan was required to pay damages to DuPont for the crime committed.

In addition, Hangzhou Sporlan agreed to cease to use, advertise or otherwise infringe on the DuPont, SUVA and ISCEON trademarks and word marks. In addition, the agreement required that Hangzhou Sporlan reveal all their suppliers and information associated with bulk refrigerants, cylinders and carton packages of counterfeit goods so subsequent investigations can be pursued. DuPont has not revealed whether the cylinders actually contained R134a, a sub-standard gas or a blend of other gases but DuPont Refrigerants's global business manager Greg Rubin said "Counterfeit refrigerants present a danger to the marketplace, in terms of potential safety and environmental issues, as well as the possibility of equipment failure. In addition, counterfeit refrigerants can include CFCs and HCFCs in containers marked as HFCs which raises an illegal import issue and can be in violation of international treaties, such as the Montreal Protocol."

DuPont Brand Assurance Anti-Counterfeiting Initiative

- An initiative launched several years ago to combat counterfeit and illegal import activity
- Global, multifaceted program including a variety of technologies to authenticate DuPont refrigerant products
- One overt technology being deployed is the **DuPont™ Izon® security label** on DACs, including DuPont™ Suva® 134a

“Count the dots and Count on DuPont”





統一重：16位防偽號碼標籤



请检查瓶口封膜上印有“杜邦圆形logo”的收膜膜上是否贴有圆形防伪标志，按箭头所示方向揭开圆形标志，可得到16位防伪数码。登陆网站：www.yuma.com.cn，或手机发送短信到1066 9588 2108，拨打电话800 820 7199，按提示输入数码，即可查询真伪。

第二重：16位防伪数码标签上-杜邦™Izon®雷射标签



明星品牌杜邦的“KODON”全金属罐具有三维立体厚度，完全颠覆传统全金属罐只能在罐盖和水平方向观察的局限。可以从左上右下四个方向观察到不同图案。此外，在与传统罐盖、标准顶部铝盖观察者视角时，还可观察到“refrigerants”，“COOL”等字样，让您更好辨识真偽。

第三重：瓶身防爆片处-杜邦™Izon®雷射标签

杜邦制冲新全新防伪标识系统，正在产品瓶身贴薄片处，新增了一张Icon®标识标签。

购买正品请认准杜邦制冷剂授权经销商。详情请联系杜邦专业销售人员：

华东、华北地区：艾成松 13636369002
华南地区：魏群立 13925400639

Steven Ai@che.dupont.com
William-J-Dong.Guo@dupont.com



Simple tips to assure genuine DuPont Refrigerants



- Always buy from a **trusted source** - direct from DuPont or from our preferred network of distributors
- Use the website link to find a distributor in your region
http://www2.dupont.com/Refrigerants/en_US/where_to_buy/index.html
<http://www.refrigerants.dupont.com.cn>
- Look for intact shrink-wrap on Dispos-A-Can® container (DAC) valve before first use
- Look for **DuPont™ Izon® security label on the DAC**
- Incorporate a **refrigerant testing program** as part of your business practices

If you are ever **in doubt** that you have purchased genuine DuPont refrigerant or if you see suspicious activity in the marketplace, contact DuPont directly on our US DuPont Refrigerants Hotline **1-800-235-7882**, prompt 5. For calls outside the United States, **call 302-996-7931**.

DuPont Brand Assurance Anti-Counterfeiting Initiative

- For more information about the DuPont program and related news, go to our website

www.refrigerants.dupont.com/genuine

http://www2.dupont.com/Refrigerants/en_US/brand_assurance/index.html

www.refrigerants.dupont.cn

- DuPont has an active global program in place to enforce the proper use of its trademark and trade name. We take brand protection seriously and will work with customs and law enforcement anywhere in the world to protect our brands. We have been and will continue to pursue legal actions in regions where we discover counterfeit products or illegal imports to **bring counterfeiters to justice.**



DuPont Brand Assurance Anti-Counterfeiting Initiative

✦ LEADERSHIP ✦ INNOVATION ✦ EXCELLENCE

IT'S NO SECRET – COUNTERFEITS COST MORE

Counterfeits cost our industry millions of dollars globally each year, and even cost lives.

Make the smart choice. Buy DuPont Refrigerants only through our network of preferred DuPont distributors.

refrigerants.dupont.com/genuine

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