



Taste You *Trust*™

“Assuring a Chain of Custody” Integrity of the Spice Supply Chain Defined

2016 World Spice Congress
Ahmedabad Gujarat India –February 27-29, 2016

Company Profile

- **McCormick & Company, Inc. is the world leader in the manufacture, marketing and distribution of spices, seasonings, flavorings and other food products to all segments of the food industry - retail, food service and food processors.**
- **Founded in 1889.**
- **Headquartered in Maryland.**
- **Sell products in over 100 countries.**
- **Sales in excess of \$4.2 billion.**
- **Approximately 10,000 employees globally.**
- **Manufacture products in over 20 countries, operating over 47 plants and laboratories.**
- **Brands with established reputation for consistent, high-quality, safe, and wholesome food products**

McCormick Brings Passion to Flavor™





Unintentional and intentional adulteration of spices is the most serious and damaging quality issue which the spice trade faces.

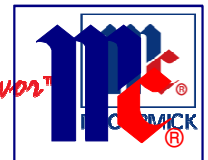


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- ***The “Global Market” has no tolerance for adulterants and contaminants.***
- ***Countries and companies that “raise the bar” to assure absolute purity through a preventive framework will be the ultimate winners.***

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It is difficult to overestimate the loss of confidence that has occurred in the Spice Industry as a result of an inability to supply pure, wholesome and safe products.

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***“The Reality of
Food Safety”***

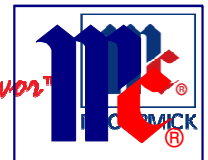
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Public Health / Food Safety

- Sudan 1 has been classified as a category 3 carcinogen by the International Agency for Research on Cancer (IARC) – of the World Health Organization (WHO).
- Other Category 3 agents include caffeine, chlorinated drinking water, eugenol (cloves) and sunset yellow).

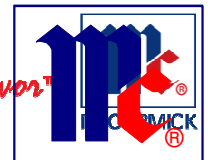
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Regulatory Authority Typical Statement on Health Risk

At the levels present, the risk from eating any of these foods is very small. As a precaution it would be sensible not to eat them. It is right that food businesses are removing these products from sale.

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***“The Perception
of Food Safety”***

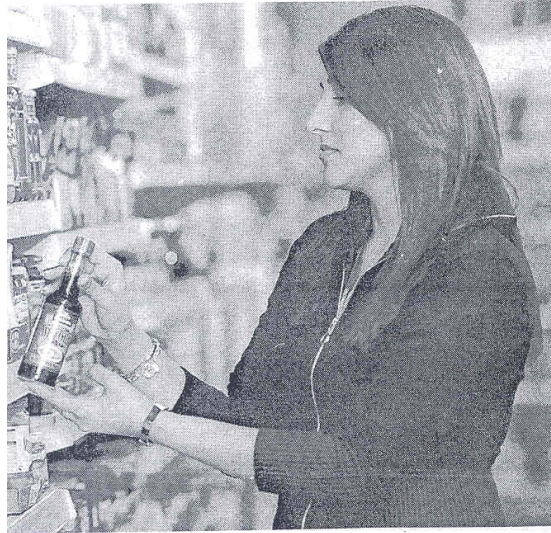
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'Hundreds more foods contain cancer-causing dye'

Authorities see a big problem at corner shops where contaminated products are still on sale

ALLAN BOVILL/ATOM



BY JULIE HENRY, MICHAEL DAY AND TANYA ANGERER

THE FOOD Standards Agency warned last night that hundreds more foods could be added to the list of products contaminated by an illegal food dye that causes cancer.

More than 350 products, including many on sale at Britain's biggest supermarkets, were withdrawn from sale on Friday after the agency revealed they contained Worcester Sauce infused with Sudan 1, an imported red dye banned in 2003 because of its potential risk to health.

The agency said yesterday that as more investigations were conducted into how the dye was distributed through the food chain, many more products could have to be withdrawn.

It also said that the British company that distributed the contaminated Worcester Sauce, had provided the names of more than 200 companies it had supplied with the ingredient.

A spokesman for the agency said it had large numbers of staff working to establish how many more products would have to be withdrawn and the list of potentially dangerous items would be updated as soon as possible.

"We can't say exactly how many, but it will be more," she said. "We are updating the list all the time. We are still working through Premier's list of customers. The problem is that their customers could then have passed the sauce on to other suppliers, who have then passed it to other companies, who may have used it in their cooking sauce and ready-made meals that are going somewhere else."

"Our entire enforcement division and chemical additives division are working on this. We have environmental health officers and health and safety officers working with us to alert supermarkets as soon as we know. The little retailers and corner shops are more problematic and we are working to get the message out to them."

Lawrence Hutter, a partner at business consultants Deloitte and an expert on the food industry, said the recall was the biggest in UK history and would cost the sector more than £100 million. He estimated that when smaller manufacturers that have used the product were traced, the number recalled could hit 500.

The list of contaminated products includes brands of shepherd's pie, pasta bake, chicken wings, casserole, steak and kidney pie and chilli con carne. Millions of items have been removed from the shelves in Tesco, Sainsbury's, Marks and Spencer, Asda and Waitrose, and from the

Some shop staff said they had not heard of the ban and so saw no reason to stop selling the products. The owner of a Londis store in east London sold our reporter

He said he had not been informed of the ban. "I didn't know about it. Nobody told me anything," he said.

The owner of a branch of Costcutters in the same part of the city was still selling some of the withdrawn products. "I will stop selling them now," she said. "So far, I've heard nothing from Newham council or our company's head office."

All the foods contain Sudan 1, which is used for colouring polish, oils, solvents and waxes and is banned in the UK and the rest of Europe.

of St Albans, contacted the Food Standards Agency after being warned about the danger last month by an Italian customer who was supplied with

exported by the company.

The contaminated chilli powder was supplied to

spice and herb specialist in Essex, which in turn was supplied by

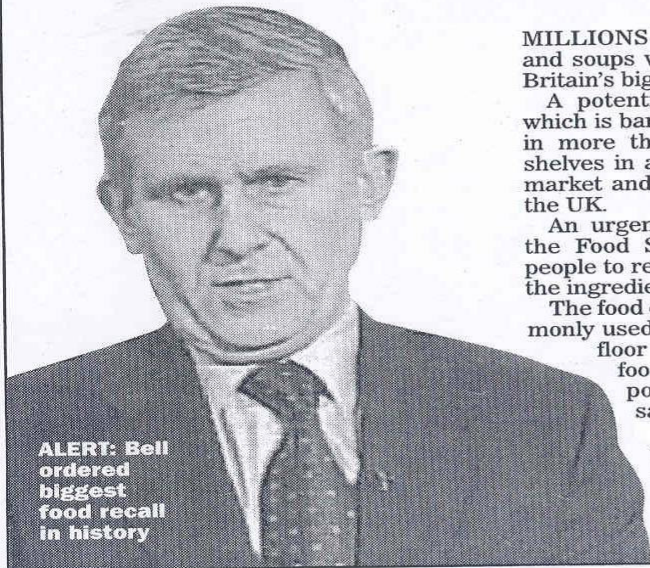
Since 2003, imported products must be certificated as free of Sudan 1. The Food Standards Agency said it was still unclear whether the contaminated batch, part of a five-tonne consignment from India in 2002, was wrongly certificated or passed down the supply chain to Premier before 2003.

The agency has established that the companies involved had not supplied the contaminated chilli powder elsewhere.

to Flavor™



Cancer scare over millions of meals



ALERT: Bell ordered biggest food recall in history

MILLIONS of ready-meals, sauces and soups were recalled last night in Britain's biggest-ever food scare.

A potentially cancer-causing dye, which is banned by the EU, was found in more than 350 food products on shelves in almost every single supermarket and convenience store across the UK.

An urgent warning was issued by the Food Standards Agency asking people to return food items containing the ingredient and get a full refund.

The food dye, Sudan 1, which is commonly used to colour petrol, shoe and floor polish, sneaked into the food chain via a batch of chilli powder used in Worcester sauce manufactured by the

The sauce was then added as an ingredient to a vast range of food products.

The full extent of the problem may still not be

By **Amy Vickers**
Consumer Editor

known after the agency admitted the colouring could be present in even more products, including takeaway and restaurant meals. The Government's advice is for people to check their cupboards and freezers at home for any of the items.

Some of the country's leading brands were featured in the recall, including

Many own-brand products – including pies, chicken wings and pizzas – from supermarket giants

also listed as containing the colouring.

Many of the products were still on supermarket shelves earlier this week, despite the fact that the Government's food agency was made aware of the risk on January 1.

But most supermarkets said last night that all affected products had now been removed from sale.

Precaution

In large doses, Sudan 1 is potentially lethal and can contribute to an increased risk of cancer. However at the levels present in the affected food products, the risk is said to be very small.

"We have been working to establish which foods were affected and the how serious the contamination was," said a spokeswoman for the FSA.

take action to remove these and minimise the risks to consumers." The FSA confirmed that it was the biggest product recall in its history.

Dr Julie Sharp, of Cancer Research UK, said: "A large range of foods appears to have been contaminated by Sudan 1, so it is understandable that people will be concerned.

"However, people should not panic if they have already eaten foods on the list. The risk of cancer in humans from Sudan 1 has not been proven and any risk from these foods is likely to be very small indeed."

It is believed the contaminated Worcester sauce was made before July 2003, when an EU ban was imposed on Sudan 1. said that it discovered the problem after "a quality assurance check".

A spokeswoman said: "The chilli powder was supplied to from a reputable UK source, who themselves had been supplied by another UK company. received written assurance that the powder did not contain Sudan 1. The FSA has initiated the product withdrawal as a precautionary measure."

A full list of affected foods can be found on the FSA's website at www.food.gov.uk/sudanlist.



CANCER ALERT

DO NOT EAT THEM

By RUKI SAYID, Consumer Editor
FAMILIES nationwide were urgently warned yesterday not to eat 359 popular foods containing a banned dye linked to cancer.

In Britain's biggest food recall, shops and supermarkets stripped their shelves of well known products such as

check cupboards, fridges and freezers. All the foods contain the Indian imported red dye Sudan 1, which is used for colouring polishes, oils, solvents and waxes. Dr Jon Bell, Chief Executive of the Food Standards Agency said: "The dye could contribute to an increased risk of cancer. At the levels present, it is likely to be very small. There is no immediate risk of ill health. But it is sensible to avoid eating more of the foods." Sudan 1 entered a batch of chilli powder used in Crosse and Blackwell Worcester Sauce made by . The sauce was then added to more than 350 products sold by Britain's major supermarkets.

Although . said it alerted the PSA as soon as possible last week, some stores were not given a full list of affected products until late on Thursday. Defending the delay, the agency said: "We didn't have enough information to act swiftly. We had to give people the full picture, not half the facts."

. claims it was "misled" by its supplier, the spice and herb specialist Unbar Rothon. It is now seeking legal advice.

Sales director Ian York said last night: "Responsibility rests with the supplier. Unbar Rothon certified the batch they supplied to us was clear of Sudan 1. I don't know where the buck stops. Legal action is an option." Unbar Rothon, of Billerica, Essex, refused to comment.

The alert was raised three weeks ago by an Italian customer. Tests in the UK 12 days ago confirmed the foods were affected.

Mr York said: "We informed the PSA as soon as the presence of Sudan 1 was confirmed. It has taken us all this time to chart which products were affected."

. chief executive David Newton, who is recovering at his Suffolk home from a heart attack, was too ill to comment.

But the company said: "Everything in our record suggests we have done things properly. We are part of a chain of events."

"Once we were notified of what had happened, we told all supermarkets to withdraw the products. It's only the sachets of sauce which are affected, not the noodles themselves."

Voice of the Mirror: Page 6
r.sayid@mirror.co.uk

Check your shelves, check your fridges, check your freezers



Shelves cleared over poison dye in 350 products

Continued from Page One

The sauce was then supplied to supermarket own-label producers and other companies such as Unilever as an ingredient for other products.

The 359 products include own-label lines from

Many are meals such as shepherd's pie, pasta bake, cottage pie, chicken wings, sausage casserole, pizza and chilli con carne.

Branded products include three flavours of

Dr Jon Beil, chief executive of the FSA, said: 'Sudan 1 could contribute to an increased risk of cancer.'

'At the levels present the risk is likely to be very small but it is sensible to avoid eating any more. There is no risk of immediate ill health.'

He advised anybody who had bought

'Virtually undetectable'

any of the items to take them back to the shop for a refund.

An FSA spokesman said he obtained the chilli powder from the Essex-based spice and herb specialist Unbar Rotherham, which in turn received it from East Anglian Food Ingredients, also in Essex.

Investigations are continuing into how the powder was contaminated.

based in St Albans, Hertfordshire owns a number of well-known brands and makes products on behalf of supermarket chains.

A spokesman said Sudan 1 was found during a 'quality assurance check'.

'The FSA has advised that the levels of Sudan 1 detected present no immediate risk to health,' he said.

'In addition the Worcestershire Sauce, when used as an ingredient of other food products, is diluted to such an extent that Sudan 1 becomes virtually undetectable.'

Since July 2003, all chilli powder imported into the UK has to be certified free of Sudan 1.

The FSA and local authorities randomly sample more than 1,000 consignments a year, many from India. But the contaminated chilli powder received by Premier Foods pre-dated the start of sampling in 2003.

The FSA has issued dozens of previous alerts over Sudan 1. In October 2003 thousands

household products, said Sudan 1 was an active carcinogen. 'Sudan 1 is used to colour waxes and polishes,' he

causes liver and bladder cancer when fed to them and it is believed the same could be true with humans. But we

on Cancer, it is not known for certain whether Sudan 1 is a cancer risk for humans. But experts say it is impos-

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Stores face fines in toxic scandal

Robert Winnett and Jon Ungoed Thomas

BRITAIN'S supermarkets and food manufacturers face multi-million-pound fines this weekend after the Food Standards Agency (FSA) launched an investigation into the health scare caused by a cancer-causing dye.

More than 350 popular food products, including certain flavours of

have been withdrawn from sale in Britain amid concerns they may contain traces of Sudan 1, a carcinogenic dye illegally added to chilli powder.

FSA officials are furious that the additive has been allowed to enter the food chain. They relieve food companies and supermarkets should have conducted more rigorous tests after an alert over the dye in 2003.

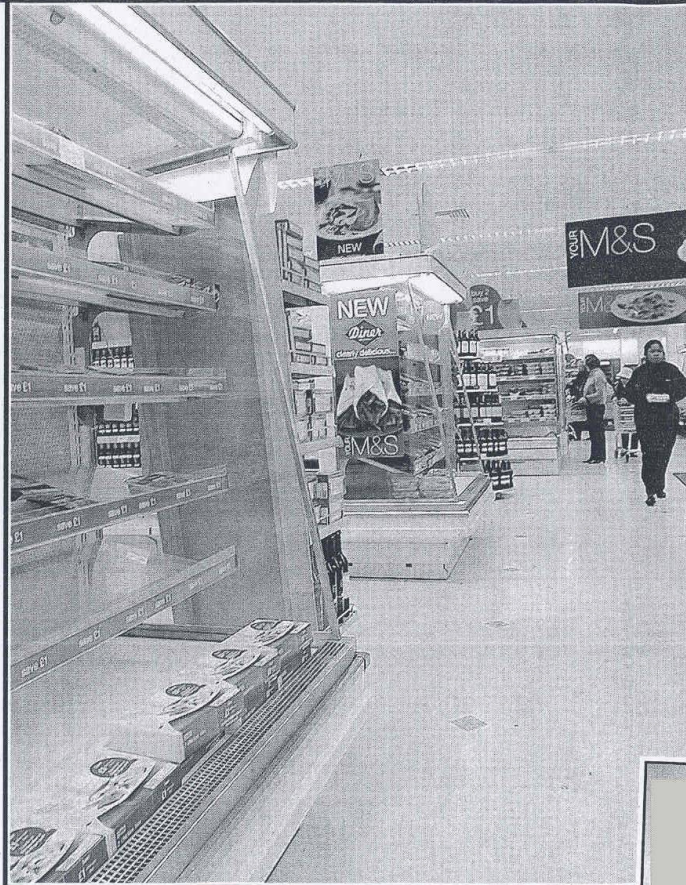
Sources at the FSA confirmed yesterday that charges could be brought against companies and their directors for "selling food injurious to health". Under food safety laws, the companies involved could face unlimited fines.

However, critics of the watchdog said yesterday it was talking tough too late. One said the organisation had been warned by its experts more than a year ago to step up its policing of Sudan 1 but had failed to do so.

Chris Grayling, Conservative health spokesman, said: "I am genuinely quite worried that the FSA seems to have acted very slowly. It was set up as a food safety body but has been trying to reinvent itself as a much more broad-ranging public health education creature... I would ask: has this organisation become too big, too bureaucratic, too ill-focused to do its job?"

Medical experts emphasised that the risk to human health is low from the contaminated meals. Supermarkets, food suppliers and safety inspectors, however, face serious questions on how a known carcinogen was allowed to taint the food supply for at least four months.

Sudan 1 is derived from coal tar and used for colouring shoe polish and floor wax. There has



Marks & Spencer is among stores that have withdrawn food tainted with dye from India

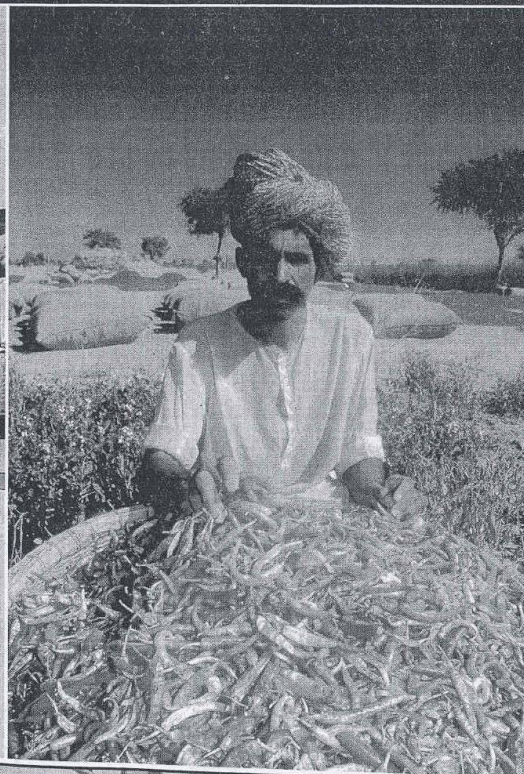
Last September, one of Britain's leading food manufacturers, started to use the powder for its Crosse & Blackwell Worcester sauce. It refused to comment this weekend on whether it conducted tests for Sudan 1.

product in Italy. It immediately told the FSA and three days later tests in this country confirmed the UK product was also contaminated with Sudan 1.

By this time, the FSA was aware of only five products that needed to be recalled, but asked

that 350 products needed to be recalled and the next day issued the public health alert.

An FSA spokesman said: "We wanted to ensure we had accurate information before we made an announcement. We did not feel there was an acute



Risk to health posed by Sudan 1

Dipesh Gader

What is Sudan 1?

Sudan 1 is a synthetically produced red dye normally used for colouring solvents, oils, waxes, petrol and shoe and floor polishes.

It is rated a "class three" carcinogen, or cancer-causing agent, by the International Agency for Research on Cancer and has been banned from use as a food additive in Britain and the rest of the European Union since 1995. America banned its use in 1918.

Sudan 1 is genotoxic, which means it can damage cellular DNA if consumed. Laboratory tests have shown it to cause cancerous liver tumours in mice, rats and rabbits.

How has it got into the food chain now?

Sudan 1 is used to colour some chilli powders produced in India and exported around the world.

Since July 2003, chilli powder imported into Britain has had to be certified free of the dye, but the batch at the centre of this scandal is thought to have arrived before then.

It passed through at least two suppliers in Britain before ending up with

... a large food manufacturer which inadvertently used the chilli powder to produce a batch of Crosse & Blackwell Worcester sauce. This sauce, in turn, has been used as an ingredient in a wide range of other products.

What food products are affected?

More than 350 different products contain the illegal powder. Many are ready-made meals



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THE



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You need only 3 tokens – they're inside **PAGE 53**

MICHAEL OWEN

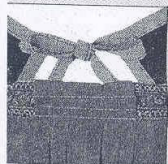
Talks to Robert Crampton **MAGAZINE**

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A bunch of flounces
Lisa Armstrong on gypsy looks
MAGAZINE

Help a

Supermarket alert on cancer food dye

By Sam Lister and Valerie Elliott

MILLIONS of food products are being recalled from supermarket shelves over concerns that they may be contaminated with an illegal dye that causes cancer.

The Food Standards Agency (FSA) warned people last night not to eat any of more than 350 brands containing chilli powder coloured with the Sudan I dye, ranging from sandwiches and pizzas to pies, soups and sauces.

The recall, the largest in British history, affects every large supermarket chain, including

contamination five days later.

It alerted the FSA on February 7, but the agency did not make the alarm public for 11 days.

Politicians demanded last night to know why consumers were left in the dark. Chris Grayling, the Conservative health spokesman, said: "The FSA's slow reaction is unacceptable, as is the fact that people were not alerted sooner to the risk."

The FSA said that it had needed to check that the product was not a counterfeit, and the FSA said that it did not make an announcement until the scale of the problem was known.

Insurers are expected to cover the cost of the product recall, which is estimated at tens of millions of pounds.

MICHAEL CRABTREE



Stores affected by the recall last



Conclusion – Food Safety

The presence of any adulteration, even at minute ppb or ppt levels in any food product is very offensive to consumers and considered with the utmost seriousness by branded food companies and retailers. It represents a most serious business risk to the integrity of the image of the industry.

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***“With Food Safety –
Perception is Reality”***

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Financial Impact of Illegal Dyes

“Less than 1/4 of 1% of a food’s cost is for the seasoning or flavor; however, its impact is central to the overall taste and customer satisfaction.

By the same token, if a very small amount of an adulterated spice finds its way into the trade, it’s use can explode into a huge quantity of product with exponential losses and cost impact.”

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The Sobering Cost Impact of Illegal Dyes on the Global Food Processing Industry

- ***Over 450 Retail, Food Service and Industrial Products recalled in Europe alone***
- ***Estimates of the global cost impact - \$300 to \$500 Million***

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Supply Chain Control Principles

- *The most effective and efficient method to assure the absence of contaminants is to establish a **chain of custody** by control of the supply chain back to source.*
- *The Chain of Custody, strategic control of the supply chain should consist of a three-pronged approach:*
 - A. *Limited sources and vendor*
 - B. *Control of source material*
 - C. *Control of manufacturing process*
- *These form the cornerstone of the management of the supply chain from field to plant to assure adulterant-free material.*

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Supply Chain Control Principles

A. *VENDOR ALLIANCE*

- *Limited sources and vendors for key commodities.*
- *These relationships are with companies who understand and can train and influence farmers to apply GAP's and GMP's.*

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Supply Chain Control Principles

B. CONTROL OF SOURCE MATERIAL

- *source spices, herbs and capsicums only in the whole, ungrounded form.*
- *It makes the prior addition of an economic adulterant highly unlikely since its presence depends on a product being finely ground to prevent detection.*
- *Since the source material has not been ground or processed, it can readily be identified as pure plant material.*
- *This unique approach greatly minimizes the possibility of intentional economic adulteration.*
- *Used in combination with rigorous incoming inspection and cleaning*

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Supply Chain Control Principles

C. CONTROL OF MANUFACTURING PROCESS

Strategic partners and vendors :

- Have state-of-the-art processing facilities.*
- Apply robust incoming inspection, cleaning, process controls, and in-process and finished product testing..*
- Meet the same quality standards and expectations required by importers.*

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Questions ?

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