



# *The Market of Cloves in European Union*



Market Brief

2006

***The Market for Cloves  
in the European Union***

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## List of abbreviations

|        |   |
|--------|---|
| C      | Centigrade  |
| C&F    | Cost and freight  |
| CAD    | Cash against documents  |
| CBI    | Centre for the Promotion of Imports from Developing Countries |
| CFC    | Common Fund for Commodities                                   |
| CIF    | Cost, Insurance and Freight                                   |
| CM     | Centimetre  |
| CNEX   | Conseil National pour l'Exportation, Benin                    |
| D/P    | Documents against payment                                     |
| EU     | European Union  |
| FAO    | Food and Agriculture Organisation                             |
| FAQ    | Fair average quality  |
| FOB    | Free on board   |
| GR     | Gram  |
| GAP    | Good Agricultural Practices                                   |
| GSP    | Generalized System of Preferences                             |
| HACCP  | Hazard Analysis and Critical Control Point                    |
| HS     | Harmonized Commodity description and Coding System            |
| ITC    | International Trade Centre                                    |
| KG     | Kilogram  |
| LBS    | Pounds  |
| LDCs   | Least developed countries                                     |
| M      | Meter   |
| MFN    | Most Favoured Nation  |
| MM     | Millimetre  |
| MT     | Metric Ton  |
| N.E.S. | Not elsewhere specified                                       |
| SAPTA  | South Asian Preferential Trade Agreement                      |
| SITC3  | Standard International Trade Classification (Revision 3)      |

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## **Executive Summary**

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Intended for producers and exporters, this market brief describes the market for cloves, more specifically the European Union market.

Two major producers, Indonesia and Madagascar, largely influence the market, which is currently stable according to interviewed traders. The world market is also influenced by several factors including aging trees in various producing countries, deforestation and the state of local processing and packaging facilities.

World production of cloves amounted to around 90,000 MT in 2004, a decline of around 30% as compared to 2003, which can be explained by the drop of the Indonesian production (around 50%), Indonesia being by far the largest world producer with more than half of the world production.

Singapore and India are the leading importers, Singapore being an “entrepôt” and re-exporting cloves to the East Asian region; India being a major consumer. The EU is the third world importer with Madagascar and the Comoros as major trade partners.

EU imports consist mainly of whole cloves, to a large extent used in whole form by the retail trade and in ground form by the food industry.

While in Europe cloves are used for food seasoning, in Indonesia they are used by the tobacco industry, ground and mixed with tobacco, to produce the famous “kretek” cigarettes.

Although the market is stable, interviewed traders believe that producers and exporters would largely benefit from actions such as planting new trees, improving the local processing and packaging facilities and stabilizing the price/quality ratio. Furthermore, they also believe that non-traditional markets with a high import potential, among which China, Viet Nam and North African countries, might offer interesting market opportunities.

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## A. Product description

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Intended for producers and exporters, this market brief covers the European Union market for cloves whether or not crushed or ground, classified under the codes:

**HS 0907 00** Cloves (whole fruit, cloves and stems), dried, whether or not crushed  
**SITC3 075.24** or ground

Clove trees *Syzygium Aromaticum* (syn. *Eugenia caryophyllus*) belong to the Myrtaceae family. Evergreen, they grow in warm humid tropical regions with a minimum annual rainfall of 150 - 250 cm, up to an altitude of 800 - 900 m. They start bearing cloves (*eugenia caryophyllata*), which grow in thick clusters, twice a year after the seventh year. Native from the Moluccas in Indonesia, the clove trees are now found in other South Asian and South East Asian countries, in the Indian Ocean Islands and in Latin America.

Cloves contain 11% to 17% essential oil, which is mostly eugenol, an effective local anaesthetic. The percentage of oil depends on the freshness of the cloves: the fresher, the higher.

Various products and by-products of the clove tree can be commercialised:

- **The dried flower bud, commonly named clove, and the clove stems are the main commercial products.** Generally they are hand picked when the clusters are ripe, before the buds open. World cloves' main market is the tobacco industry, in Indonesia for the "kretek cigarettes", and in India. Their other market is as a spice, either in whole or ground form, in cooking and for flavouring.
- **Clove bud essential oil** is used in perfumery and, though less frequently, in pharmaceutical industries. The essential oil is also used by the food industry in meat products, sauces and pickles, confectionery and bakery products. The oil is a colourless or yellow liquid obtained in a yield of 11% to 17% on distillation of the spice. The quality is the best when the yield is included in a range of 15% - 17%.
- **Clove bud absolute** is mainly used in the luxury perfumery.
- Less expensive **clove stem oil**, pale yellow, obtained after distillation in a yield of about 6% is used in the mass-market products. It is also increasingly used in meat seasonings.
- **Clove leaf oil**, a dark brown liquid obtained after distillation of the dry leaves in a yield of 2% to 3%, is the major traded clove oil. When rectified, the oil is pale yellow. Less expensive than the bud or stem oil, it is used as a main source for the production of eugenol, which is used as an analgesic and as a raw material for other chemical products such as vanillin.
- **Clove oleoresin** is extracted from the stems or the buds. Its flavour and odour is similar to the spice, to which it is sometimes substituted. It is traded as an essential oil and is mainly used as seasoning in the meat industry, baked goods or desserts.

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## B. Production, foreign trade and consumption

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### Production

According to the FAO figures in table 1 below, Indonesia produced around 70% of world cloves in 2003, followed by Madagascar with around 12%. Tanzania and the Comoros followed with a share of 10% and 2.4% respectively.

**Table 1.**  
**Main producers of cloves, in MT**

|              | 2000           | 2001           | 2002           | 2003           | Share 2003 (%) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| <b>World</b> | <b>104,999</b> | <b>112,829</b> | <b>124,198</b> | <b>124,783</b> | <b>100.0</b>   |
| Indonesia    | 74,047         | 80,684         | 87,909         | 90,000         | 72.1           |
| Madagascar   | 15,600         | 15,500         | 15,500         | 15,500         | 12.4           |
| Tanzania     | 10,000         | 10,500         | 12,500         | 12,500         | 10.0           |
| Comoros      | 2,582          | 2,725          | 2,869          | 3,013          | 2.4            |
| Sri Lanka    | 1,500          | 2,000          | 4,100          | 2,400          | 1.9            |

Source: FAO, FAOSTAT database.

Figures shown in table 2 below were obtained from interviewed traders who estimate that the world 2004 production was approximately 30% less than in 2003, amounting to around 90,000 MT. As far as Indonesia is concerned, its production dropped by 50% due to the low market prices. Important declines were also observed in Madagascar and Tanzania.

**Table 2**  
**Estimated production of cloves in 2004 in MT**

|              |                 |
|--------------|-----------------|
| <b>World</b> | <b>90,000</b>   |
| Indonesia    | 45,000          |
| India        | 10,000 – 15,000 |
| Tanzania     | 6,000           |
| Sri Lanka    | 4,500           |
| Madagascar   | 3,000           |
| Comoros      | 2,500           |
| Brazil       | 1,000           |

Source: figures given by traders

## **Foreign Trade**

### **Major world importers**

As shown in table 3, the annual world trade of cloves averaged 50 thousands MT for an average value of US\$ 150 million during the period 2000-2004. Singapore and India were the leading importers in 2004. Singapore's share was around 39% (US\$ 53.6 million and 21,416 MT). India's was around 20% in value and 13% in quantity (US\$ 27.4 million and 6,945 MT). During the same year the European Union's share was 6.6% in value and 5.1% in volume (US\$ 9.3 million and 2,739 MT).

In Asia, Singapore plays the role of an "entrepôt" and re-exports the cloves mainly to the South East Asian region. In the past, around half of Singapore's imports came from Madagascar, 20% from Tanzania, 20% from Brazil and 10% from the Comoros, whereas now its main supplies come from Indonesia, Zanzibar and the Indian Ocean region.

While Singapore is a major re-exporter, India, is a major importer and consumer of cloves, mainly imported from Indonesia, Sri Lanka, Madagascar and Tanzania.

**Table 3**  
**Major world importers of cloves**

| Importers          | Value (US\$ 1000) |                |                |                |                |              | Quantity (MT) |               |               |               |               |              |
|--------------------|-------------------|----------------|----------------|----------------|----------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|
|                    | 2000              | 2001           | 2002           | 2003           | 2004           | Share 2004   | 2000          | 2001          | 2002          | 2003          | 2004          | Share 2004   |
| <b>World Total</b> | <b>146,624</b>    | <b>208,132</b> | <b>143,737</b> | <b>115,916</b> | <b>139,314</b> | <b>100.0</b> | <b>51,764</b> | <b>54,573</b> | <b>35,647</b> | <b>58,031</b> | <b>54,072</b> | <b>100.0</b> |
| <i>Of which:</i>   |                   |                |                |                |                |              |               |               |               |               |               |              |
| Singapore          | 48,989            | 104,090        | 38,133         | 34,133         | 53,599         | 38.5         | 14,933        | 19,101        | 6,880         | 17,177        | 21,416        | 39.6         |
| India              | 6,356             | 34,944         | 24,849         | 29,548         | 27,434         | 19.7         | 2,754         | 5,437         | 6,867         | 15,678        | 6,945         | 12.8         |
| Malaysia           | 3,216             | 2,511          | 4,569          | 2,017          | 8,169          | 5.9          | 913           | 409           | 869           | 880           | 2,581         | 4.8          |
| Pakistan           |                   |                |                | 3,859          | 3,179          | 2.3          | -             | -             | -             | 1,702         | 1,269         | 2.3          |
| USA                | 4,291             | 6,892          | 8,764          | 3,922          | 3,007          | 2.2          | 1,095         | 1,194         | 1,486         | 1,560         | 1,067         | 2.0          |
| Japan              | 1,421             | 2,050          | 2,250          | 937            | 1,058          | 0.8          | 316           | 319           | 341           | 332           | 430           | 0.8          |
| <b>Total EU</b>    | <b>10,884</b>     | <b>15,827</b>  | <b>18,850</b>  | <b>9,228</b>   | <b>9,260</b>   | <b>6.6</b>   | <b>3,069</b>  | <b>3,938</b>  | <b>3,574</b>  | <b>3,155</b>  | <b>2,739</b>  | <b>5.1</b>   |
| <i>Of which:</i>   |                   |                |                |                |                |              |               |               |               |               |               |              |
| Netherlands        | 2,175             | 4,747          | 4,382          | 1,853          | 1,716          | 1.2          | 920           | 1,812         | 1,271         | 747           | 636           | 1.2          |
| Germany            | 1,502             | 2,860          | 2,872          | 1,939          | 1,641          | 1.2          | 394           | 443           | 499           | 669           | 553           | 1.0          |
| France             | 2,232             | 2,407          | 3,293          | 1,338          | 1,205          | 0.9          | 528           | 385           | 440           | 420           | 338           | 0.6          |
| UK                 | 1,449             | 1,697          | 1,479          | 824            | 879            | 0.6          | 432           | 682           | 352           | 282           | 292           | 0.5          |

Source: COMTRADE database, United Nations Statistics Division (UNSD).

Note: EU figures 2000-2004 include all EU 25 countries for comparison purposes.

### Main origins of world imports

As shown in table 4, among the traditional producing countries, Madagascar is by far the major exporter although its exports dropped by more than half between 2000 and 2004, mainly due to the bad state of its trees and to the price volatility of the product. Its share in 2004 was around 26% in quantity and 25% in value.

As for Brazil, its exports increased sharply between 2000 and 2004 from 143 MT in 2000 to 6,427 MT in 2004 for a share of around 12% in quantity and 10% in value. The reason of this increase may be explained by the fact that the Brazilian cloves market is speculative due to its trade network's structure (see paragraph F. Distribution channels).

Tanzania, Sri Lanka, Indonesia and the Comoros are other significant exporters sharing respectively around 9%, 7%, 6% and 5,7% of the traded volume in 2004.

**Table 4**  
**World imports of cloves by main origins**

| Origins                                    | Value (US\$ 1000) |                |                |                |                |              | Quantity (MT) |               |               |               |               |              |
|--|-------------------|----------------|----------------|----------------|----------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|
|  | 2000              | 2001           | 2002           | 2003           | 2004           | Share 2004   | 2000          | 2001          | 2002          | 2003          | 2004          | Share 2004   |
| <b>Total world imports, of which from:</b> | <b>146,624</b>    | <b>208,132</b> | <b>143,737</b> | <b>115,916</b> | <b>139,314</b> | <b>100.0</b> | <b>51,764</b> | <b>54,573</b> | <b>35,647</b> | <b>58,031</b> | <b>54,072</b> | <b>100.0</b> |
| Madagascar                                 | 97,333            | 97,298         | 29,139         | 41,244         | 35,205         | 25.3         | 32,257        | 27,427        | 7,164         | 20,601        | 14,029        | 25.9         |
| Brazil                                     | 458               | 9,897          | 26,303         | 3,920          | 13,251         | 9.5          | 143           | 1,711         | 4,710         | 1,721         | 6,427         | 11.9         |
| Tanzania                                   | 10,152            | 23,393         | 6,690          | 9,291          | 14,474         | 10.4         | 3,385         | 4,050         | 1,915         | 4,445         | 5,018         | 9.3          |
| Sri Lanka                                  | 4,434             | 23,006         | 15,814         | 6,090          | 20,051         | 14.4         | 1,419         | 3,239         | 4,147         | 2,039         | 3,807         | 7.0          |
| Indonesia                                  | 8,164             | 12,655         | 18,075         | 24,813         | 7,113          | 5.1          | 4,123         | 4,391         | 6,024         | 14,591        | 3,315         | 6.1          |
| Comoros                                    | 5,751             | 12,349         | 9,813          | 4,445          | 8,545          | 6.1          | 1,794         | 1,925         | 1,652         | 2,196         | 3,080         | 5.7          |
| Singapore                                  | 6,738             | 8,902          | 4,475          | 3,148          | 4,786          | 3.4          | 4,098         | 5,415         | 1,283         | 1,580         | 1,618         | 3.0          |
| Netherlands                                | 1,622             | 2,772          | 2,123          | 1,076          | 1,530          | 0.9          | 408           | 499           | 362           | 322           | 405           | 1.0          |
| Kenya                                      | 510               | 2,311          | 1,891          | 240            | 1,351          | 1.0          | 163           | 443           | 279           | 75            | 437           | 0.8          |

Source: COMTRADE database, United Nations Statistics Division (UNSD).

## Main origins of EU imports

The EU is the third world importer. Madagascar and the Comoros contributed to approximately half of the volume of its imports in 2004, followed by Indonesia (14%) and Brazil (13%).

**Table 5**  
**EU imports of cloves by main origins**

| Origins                           | Value (US\$ 1000) |               |               |              |              |              | Quantity (MT) |              |              |              |              |              |
|-----------------------------------|-------------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|
|                                   | 2000              | 2001          | 2002          | 2003         | 2004         | Share 2004   | 2000          | 2001         | 2002         | 2003         | 2004         | Share 2004   |
| <b>Total EU imports of which:</b> | <b>10,884</b>     | <b>15,827</b> | <b>18,850</b> | <b>9,228</b> | <b>9,260</b> | <b>100.0</b> | <b>3,069</b>  | <b>3,938</b> | <b>3,574</b> | <b>3,155</b> | <b>2,739</b> | <b>100.0</b> |
| <b>from extra EU:</b>             | <b>8,408</b>      | <b>11,797</b> | <b>15,627</b> | <b>7,190</b> | <b>6,585</b> | <b>71.1</b>  | <b>2,488</b>  | <b>2,965</b> | <b>3,149</b> | <b>2,681</b> | <b>2,257</b> | <b>82.4</b>  |
| Madagascar                        | 3,811             | 5,481         | 3,308         | 3,249        | 2,061        | 22.3         | 971           | 912          | 533          | 1,333        | 697          | 25.5         |
| Comoros                           | 2,237             | 3,215         | 4,431         | 1,477        | 1,497        | 16.2         | 718           | 487          | 613          | 573          | 551          | 20.1         |
| Indonesia                         | 773               | 1,309         | 2,506         | 763          | 1,034        | 11.2         | 455           | 1,265        | 1,089        | 340          | 388          | 14.2         |
| Brazil                            | 56                | 508           | 3,252         | 806          | 1,193        | 12.9         | 12            | 74           | 507          | 184          | 368          | 13.4         |
| Sri Lanka                         | 1,100             | 615           | 1,391         | 552          | 253          | 2.7          | 239           | 129          | 186          | 167          | 102          | 3.7          |
| India                             | 131               | 98            | 125           | 160          | 229          | 2.5          | 25            | 15           | 16           | 24           | 41           | 1.5          |
| Tanzania                          | 146               | 178           | 136           | 46           | 89           | 1.0          | 35            | 24           | 19           | 14           | 30           | 1.1          |
| <b>from Intra EU:</b>             | <b>2,476</b>      | <b>4,031</b>  | <b>3,223</b>  | <b>2,038</b> | <b>2,675</b> | <b>28.9</b>  | <b>581</b>    | <b>973</b>   | <b>425</b>   | <b>474</b>   | <b>481</b>   | <b>17.6</b>  |
| Netherlands                       | 1,199             | 2,066         | 1,500         | 654          | 1,008        | 10.9         | 284           | 339          | 224          | 166          | 247          | 9.0          |
| Germany                           | 380               | 431           | 592           | 272          | 355          | 3.8          | 89            | 61           | 83           | 80           | 84           | 3.1          |
| Sweden                            | 67                | 51            | 149           | 69           | 289          | 3.1          | 15            | 7            | 11           | 10           | 19           | 0.7          |
| France                            | 462               | 499           | 580           | 669          | 276          | 3.0          | 103           | 68           | 61           | 163          | 47           | 1.7          |

Source: COMTRADE database, United Nations Statistics Division (UNSD).

Note: EU figures 2000-2004 include all EU 25 countries for comparison purposes.

## Consumption

South East Asia is by far the major world-consuming region where Indonesia is the major consuming country. Indonesian annual consumption of cloves ranges between 65,000 and 85,000 MT, it is mainly used to produce the kretek cigarettes, which consist of two thirds of tobacco and on third of cloves. The rest of the world consumes approximately 10,000 MT shared mainly by the EU, North and South America and China (between 1,000 – 1,500 MT each) and the Middle East (between 3,000 to 4,000 MT).

## C. Market characteristics

**Cloves are generally imported whole**, grinding being done in consuming countries, for the cloves flavour quickly deteriorates when they are ground.

**In the EU, the most popular quality is the CG3 quality from Madagascar, the Comoros and Zanzibar.** CG3 quality accounted for 75% to 95% of the EU clove consumption during the last two years. The other qualities consumed in the EU are CG1 and CG2.

EU Importers specify that each lot should not contain not more than 20% of cloves without heads, 7% of foreign matters from the clove and 1% of foreign matters. Furthermore they admit a maximum of 13% of humidity before shipment.

In the EU, the ground stem is often used instead of the bud in spice blends, particularly in spice mixes and for curry powder. The food industry is the main user of ground cloves chiefly

for meat seasonings, sauces and baked foods. As for retail sales, they are an important market segment and consist mainly of whole cloves, where the buds are complete, with large heads and stout stalks.

**In Indonesia**, cloves are ground and mixed with tobacco by the kretek cigarette industry. Zanzibar and Madagascar qualities were used in the Indonesian up-market cigarettes until two years ago when the imports were banned to protect the local production of cloves.

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## **D. Market access**

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### **Tariffs**

**In the EU**, a third country duty of 8% ad valorem is levied on cloves imports including imports from Brazil and Indonesia. The EU waives this third country duty for imports from countries with special trade agreements, including Madagascar and the Comoros. Tariff preferences ranging from 1.1% to 2.8% are granted to selected countries (see annex 4).

**In Malaysia and Singapore**, no import duty is levied on cloves imports.

**In India**, no import duty is levied on cloves imported from Sri Lanka, the major cloves supplier to India. A third country duty of 70% is levied on cloves imported from countries with special trade agreements, except SAPTA countries (7%), and South Asian Association for Regional Cooperation (Least developed countries) countries (20%).

Tariff details are available on ITC's Market Access Map <http://www.macmap.org/>

### **Regulations, sanitary and phytosanitary measures in the EU**

**Nutritional, hygienic and toxicological issues are major concerns to EU consumers.** Subjects such as macro-cleanliness, microbial loads, heavy metal and pesticide residues are regulated by food safety standards.

The EU has a number of directives and regulations concerning food safety and the European Spice Association (see annex II, other useful addresses) has fixed minimum quality and sanitary standards agreed by all members. In addition, Individual member countries or buyers may impose additional requirements. Therefore, producers should check with the importers for their specific requirements and those of the target country.

For instance, irradiated foods are totally forbidden in the Netherlands while the EU Directive 1999/3/EC of the European parliament and the European Council of 22 February 1999 set at 10 the maximum overall average absorbed radiation dose (kGy) permitted in spices.

The website [www.europa.eu.int/comm/index\\_en.htm](http://www.europa.eu.int/comm/index_en.htm) contains additional information on subjects such as:

- Food Contact Materials.
- Food Contaminants and Residues (chemical and pharmaceutical).
- Food Hygiene.
- Food irradiation.
- Official controls on food products.

Exporters may also wish to refer to the Cleanliness Specifications of the American Spice Trade Association (ASTA), which are often considered as a reference by the trade, and consult the ASTA website: [www.astaspice.org](http://www.astaspice.org).

## Standards

Information on standards imposed in the clove trade can be found in the International Organization for Standardization (ISO) website: [www.iso.org](http://www.iso.org), more specifically the following standards:

- ISO 2254: 2004 Cloves, whole and ground (powdered) -- Specification
- ISO 3141: 1997 Oil of clove leaves [*Syzygium aromaticum* (L.) Merr. et Perry, syn. *Eugenia caryophyllus* (Sprengel) Bullock et S. Harrison].
- ISO 3142: 1997 Oil of clove buds [*Syzygium aromaticum* (L.) Merr. et Perry, syn. *Eugenia caryophyllus* (Sprengel) Bullock et S. Harrison].
- ISO 3143: 1997 Oil of clove stems [*Syzygium aromaticum* (L.) Merr. et Perry, syn. *Eugenia caryophyllus* (Sprengel) Bullock et S. Harrison].

In addition, the following documents published by the FAO may be useful:

- Code of hygienic practice for spices and dried aromatic plants CAC/RCP 42 – 1995.
- Guide for the Microbiological Quality of Spices and Herbs Used in Processed Meat and Poultry Products CAC/GL 14 – 1991.

As mentioned previously, exporters may wish to refer to the European Spice Association minimum quality and sanitary standards. They may also wish to refer to the Cleanliness Specifications of the American Spice Trade Association (ASTA).

**Organic standards.** As with all other food products, consumers, mainly in the EU, are increasingly showing a preference for organic products for which they are willing to pay a higher price. Therefore the reader should refer to EU Regulation 2092/91 on the production, processing and commercialisation of organic products.

The following ITC studies contain useful information on organic certification and food laws and regulations:

- Organic food and beverages, world supply and major European markets, ITC, 1999.
- The United States market for organic food and beverages, ITC, 2002.

**The Hazard Analysis and Critical Control Point system (HACCP) can be an asset.** The EU Directive on Hygiene for Foodstuffs (93/43/EC) which became effective the 1<sup>st</sup> of July 1996 stipulates that: “foodstuffs companies shall identify each aspect of their activities which has a bearing on the safety of foodstuffs and ensure that suitable safety procedures are established, applied, maintained and revised on the basis of the HACCP system”. The adoption of the HACCP system is mandatory for EU companies which process, treat, pack, transport, distribute or trade foodstuffs. It concerns risks such as macro biological (vermin), microbiological (viruses, bacteria, moulds) and toxicological (contamination by pesticides, heavy metals or dioxin). Although not mandatory for exporters to the EU, an approved HACCP system can be an asset.

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## E. Prices

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According to traders, clove prices went up in the last six months from US\$ 2,500 to US\$ 3,800 FOB or ex-warehouse Singapore. They expect them to range between US\$ 2,500 and US\$ 3,300 in the first quarter of 2006.

At the end of November 2005, prices of average quality cloves were as follows in US\$/MT FOB Singapore:

- Indonesia: 2,850
- Zanzibar: 2,900
- Comoros: 2,800
- Brazil: 2,750
- Madagascar: 2,800

Prices of stems in US\$/MT C&F European ports were as follows:

- Madagascar: 600 – 950
- Indonesia: 500

Table 6 below contains indicative prices of cloves included in the ITC Market News Service (MNS) report of March 2006.

**Table 6**  
**Indicative prices in the market place in US\$/kg**

|                       | USA  | Japan | Europe | Kuwait |
|-----------------------|------|-------|--------|--------|
| Sri Lanka Hand picked | 7.17 |       |        | 6.0    |
| Madagascar            | 3.65 | 4.80  | 4.50   |        |
| Comoros               |      |       | 4.50   |        |
| Zanzibar              | 4.74 | 5.40  |        |        |
| Indo stems            | 1.10 |       |        |        |

Source: MNS report, March 2006

The Market News Service (MNS) of the ITC collects information from a network of correspondents worldwide in order to provide timely and detailed price and market information on various products including spices. MNS is available on ITC's Product Map market intelligence platform on: <http://www.p-maps.org>.

Prices and other useful information may also be found in the periodicals *Marchés tropicaux et méditerranéens* and *The Public Ledger* (see annex V).

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## F. Distribution channels

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**Rotterdam, London, Hamburg, Marseilles and Antwerp are the major international trading centres in Europe, while Singapore is the major trading centre in South East Asia and Dubai the major one in the Middle East.**

Many exporters prefer to work with sales agents based in the importing country, who act on behalf of the exporter, find an importer, negotiate prices and contractual terms, present

samples and have them tested, give the exporter market reports, etc. Sales agents, being based in the consuming country, have easier access to market information including up to date market prices. Before working with agents and engaging their services on a long-term contract, exporters should check the agents' trade references.

Cloves are often imported in bulk in the EU through German or Dutch traders, while in the United Kingdom traders import cloves chiefly for their domestic market. European traders can offer competitive prices due to the large quantities they deal with. Thanks to their infrastructure, they also offer very short delivery terms as compared to exporters in producing countries. They have a better knowledge of the local market and its requirements and they can guarantee regular supplies and quality. Annex I contains a list of potential EU importers/traders as well as trade contacts in Singapore.

Exporters may refer to the ITC's Product Map market intelligence platform on <http://www.p-maps.org>, which contains links to potential business contacts in addition to other useful information such as international trade statistics, prices or market studies. They may also refer to the website [www.europages.com](http://www.europages.com), which contains contact details and information on importers as well as what the site describes as a "market place short term offers".

#### **Example of distribution networks in Madagascar and in Brazil:**

- In Madagascar, small growers barter their cloves for various commodities offered by bush collectors who sell the cloves to large collectors. The collectors either deal with exporters or sell the cloves to regional capital cities.
- In Brazil, the market is volatile because the distribution networks are shorter. Production is in the hands of large growers who sell their crop directly to exporters but only if the price offered is high enough to cover their production costs.

#### **In the EU, cloves are generally distributed through the following networks:**

- Specialized traders/importers sell to grinders/processors. They also often process the spices before re-exporting them.
- Processors (grinders/blenders/packers) purchase raw spices directly from exporters or from traders/importers. Although more costly, the latter option is generally adopted, as supply and quality problems are better managed than purchasing directly from individual exporters. Processors sell mostly to the industrial users, to the retail, wholesale or catering sectors.
- The spice grinding and processing industry is highly concentrated in developed countries. However, there are a few joint ventures between multinationals and companies in producing countries, which make the supply and quality control easier.
- The **food-processing industry** is the largest client of the spice processors.

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## G. Commercial practices

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Usually a standard “shipment contract” is used, issued by:

**International General Produce Association**

Gafta House  
6 Chapel Place  
Rivington Street  
London. EC2A 3SH  
United Kingdom  
Tel: +44 20 7814 9666  
Fax: +44 20 7814 8383  
E-Mail: [igpa@gafta.com](mailto:igpa@gafta.com)  
Web Site: [www.igpa.com](http://www.igpa.com)

Where buyers and sellers are well known to each other they may prefer to agree mutual terms rather than use a standard contract. However, it is worthwhile for sellers to compare their arrangements with the terms offered by other buyers.

Cloves are generally traded on a FOB, C&F or ex store basis, in US dollars per MT. The date of shipment, grade and price are to be clearly indicated in the contract. Payment is usually cash against documents (CAD). The letter of credit (L/C), both confirmed and irrevocable is not often used. When L/Cs are used, new suppliers are advised to offer advantageous terms such as payment after arrival and inspection, or drawing a certain percentage against the L/C, with the rest to be paid after inspection, to create good will. Usually importers require a pre-shipment quality control, which is carried out by an independent company.

Generally cloves are shipped in containers, by sea from overseas, and by truck or by rail within Europe.

Suppliers should be ready to make available a specification sheet including information on the following:

- Name of the product
- Definition
- Botanical name
- Source
- General properties (colour, aroma, taste, extraneous matter)
- Physical and chemical properties (moisture, volatile oil, total hash)
- Bacteriological properties
- Packaging

New suppliers are advised to make sure that the quality of the shipment and the delivery terms correspond to the contract.

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## H. Quality

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The quality and yield of the crop depend largely on the skill of the pickers. Furthermore, the quality of the dried cloves depends on various factors that exporters should consider throughout the whole process, from harvesting of the clove clusters to shipment, in order to ensure the quality of their cloves:

- Harvesting should be done when the buds are fully developed and when the base of the calyx has turned from green to pink.
- Stems should be removed from the clove buds.
- Stems and buds should be piled separately for later drying.
- Over-ripe cloves should be excluded as well as residues of flowers.
- The drying process should start as soon as possible after the separation of the buds from the clusters.
- The cloves should be exposed to the sun for drying (normally four to five days, longer when the weather is cloudy), either on mats or on concrete floors. In the latter case the use of mats is advised to avoid abrasion of the cloves.
- During the drying process the buds should be spread out in a thin layer on the floor and raked from time to time to avoid mould and to obtain a uniform colour.
- After the drying process, the dried cloves should be sorted to remove “mother-of-cloves” (i.e. clove seeds) and “khoker cloves” (i.e. withered cloves).
- When necessary exporters should re-dry the cloves to comply with the importers’ requirements as regards the moisture content.
- The dried weight should be one-third of the fresh green weight.
- After a final cleaning, sorting and grading, the cloves should be stored in jute bags in dry, ventilated rooms.
- The cloves should not be too much stacked up as stacking up deteriorates them.
- A prolonged storage should be avoided as it leads to a loss of some of the volatile oil by evaporation. This is particularly true when the spice is ground and is exposed to the air.

**Some parameters allow processors to estimate the quality of the cloves when properly dried. These parameters refer to their appearance, size and oil content as well as to the aroma character of the cloves’ volatile oil:**

- Cloves should be of a bright brown colour, free from mould and they should snap cleanly.
- The cloves’ heads should be light brown and closed.
- The aromatic steam volatile oil content should be around 17% in good quality cloves.
- The fixed-oil content should range between 5% and 10%.
- The foreign matters: dust, leaves, sticks, dead insects, residues should not exceed 1%.

An example of foreign matters and mould permitted in cloves is shown in table 7 below:

**Table 7  
Foreign matter and mould permitted in Zanzibar cloves**

| Quality   | Maximum foreign matters   | Maximum level of mould |
|---|---|------------------------|
| <b>Good cloves “Special quality”</b>                  | 2% of stems, mother of cloves, khoker and extraneous matter           | 14%                    |
| <b>Khoker and mother of cloves “standard quality”</b> | 4% of stems, mother of cloves, and extraneous matter.<br>4% of khoker | 14%                    |
| <b>Stems</b>  | 5% of stems<br>20% of khoker  | 14%                    |

Source: Zanzibar State Trading Corporation

In addition, a floating test may be used to determine the quality: higher grade cloves sink or float vertically with their heads up while lower grade cloves float horizontally on the surface of the water.

When properly stored, cloves may be kept for approximately 24 months while ground cloves may be kept for about 6 months.

**The stems used for oil distillation should be dried in a similar manner to the buds.** As the buds, they lose two thirds of their fresh green weight during the drying process.

**Often, traders set their own quality standards** and control samples prior each shipment. They also carry out quality controls after reception of each shipment to ensure that it matches with the samples agreed upon.

Traded cloves and clove oils are generally classified according to their country of origin as shown in table 8 below:

**Table 8**  
**Cloves and clove products classified according to origins**

| Clove buds or stems  | Clove bud oil | Clove stem oil       | Clove leaf oil |
|----------------------|---------------|----------------------|----------------|
| Brazilian            | Malgasy       | Malgasy              | Indonesian     |
| Comoran              | Sri Lankan    | Zanzibar (Tanzanian) | Malgasy        |
| Grenadian            | Indonesia     | Indonesia            |                |
| Malgasy              | Zanzibar      |                      |                |
| Penang (Malaysian)   |               |                      |                |
| Sri Lankan           |               |                      |                |
| Zanzibar (Tanzanian) |               |                      |                |

Other origins include India, the Philippines, the Seychelles, Mauritius and Singapore.

Most traded cloves pertain to the “**average quality**” which includes the origins and qualities listed in table 9 below:

**Table 9**  
**Traded qualities according to origins**

| Origins    | Average quality | Top quality       |
|------------|-----------------|-------------------|
| Madagascar | CG3             | CG1               |
| Comoros    | CG3             |                   |
| Zanzibar   | Standard        | Handpicked        |
| Brazil     | FAQ             |                   |
| Indonesia  |                 | Various qualities |

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## I. Packaging and labelling

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**Clove buds and stems** are generally packed for export in 50 kg maximum double jute or polyethylene bags. The bags are shipped in containers of a capacity of 10 tonnes - 20 feet or 20 tonnes - 40 feet.

The **essential oil of clove** is generally shipped in plastic drums, the **clove leaf oil** is packed in metal drums and the **Oleoresin**, mainly of Indian origin, is packed in 20 or 25 plastic pails.

Containers used for shipment should preferably be ventilated and the temperature during shipment should range between 5° C and 25° C. In addition, the relative humidity should not exceed 75% as too much humidity increases the risk of self-heating of the cloves due to their high content of fatty oils. Furthermore, once damp the cloves get worthless.

In the EU, Environmental regulations regarding packaging are of high importance. The EU Directive 94/62/EC of 20 December 1994 on Packaging and packaging waste, which became law in 1996 commits all EU members to adopt policies to restrain the production of packaging wastes and facilitate their recovery, recycling and reuse. For spice exporters, it lays down the permitted maximum levels of heavy metals such as lead, chromium and mercury in packaging materials. Additional and detailed information may be found in the ITC publication: "Dried Herbs and Spices – A packaging manual", 1999. This publication contains information on the following subjects:

- Transport packaging
- Retail packaging
- Packaging materials
- Packaging methods
- Health, safety and environmental issues affecting spice packaging.

Other ITC publications contain information, which might be useful:

- PACKit: Importing Country Profile, EU, 2005.
- PACKit: Packaging product module, Spices and herbs, 2005.
- PACKit: Cross-cutting module, Transport Packaging, 2004.
- PACKit: Cross-cutting module, Health, safety and the environment in the context of packaging, 2004.
- Glossary of packaging terms for developing countries, 1997.

Information on labelling, presentation and advertising of foodstuffs to the final consumer may be found in Council Directive 2000/13/EC of 10 March 2000.

Exporters are advised to write labels in at least two EU official languages, generally English and French, including:

- Name of the product
- Country of origin
- Care conditions
- Name and address of the manufacturer or distributor
- Crop year
- Lot identification / batch number
- Net weight
- Special storage requirements
- Instruction for use

As regulations are constantly revised, exporters are advised to always check with their importers for the latest requirements.

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## **J. Trade promotion**

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Exporters of cloves promote their products mainly in cooperation with importers and supermarkets through the distribution of promotional pamphlets with product description and culinary suggestions and recipes. They also often place advertisements in specialized publications (see annex V) or through the web. Participation in trade fairs is also a good way to develop new contacts and obtain information on market trend and commercial practices.

Export promotion organizations can also send delegations to importing countries to strengthen existing business ties and explore new ones. An especially effective way of doing this is to participate in selected food fairs. A list of the most important fairs for the EU market follows:

### **Food Ingredients (FI)**

Trade fair, which takes place in various locations

Next event: 13 - 15 September 2006, Bangkok, Thailand

Contact office: Expoconsult BV trading as CMP Information

PO Box 200

3600 AE Maarssen

The Netherlands

Tel: +31 346 559 444

Fax: +31 346 573 811

E-mail: [fi@cmpinformation.com](mailto:fi@cmpinformation.com)

[www.fi-events.com](http://www.fi-events.com)

### **Anuga**

Biennial trade fair

Next event: 13 to 17 October, 2007 Cologne, Germany

Organizer: Koelnmesse GmbH

Messeplatz 1

50679 Köln

Germany

Tel: +49 221 821-3895

Fax: +49 221 821-3410

E-mail: [anuga@koelnmesse.de](mailto:anuga@koelnmesse.de)

[www.koelnmesse.de](http://www.koelnmesse.de)

### **IFEAT conference**

Next event: 27 Nov.- 1 Dec. 2006, Cape Town, South Africa

organizer: International Federation of the Essential Oil and Aroma Trades (IFEAT)

GATFA House

6 Chapel Place

Rivington Street

London EC2A 3SH

United Kingdom

Tel: +44 20 7729 5904

Fax: +44 20 7814 8383

E-mail: [secretariat@ifeat.org](mailto:secretariat@ifeat.org)

<http://www.ifeat.org>

## **SIAL Salon international de l'alimentation**

Show which takes place in various locations:

22-26 October 2006 Paris, France

28 au 30 Mars 2007 Montréal, Canada

Contact: SIAL Service Client

1, rue du Parc, 92593 Levallois Perret, France

Tel: +33 1 49 68 51 00, Fax: +33 1 49 68 54 49

E-mail: [infos@exposium.fr](mailto:infos@exposium.fr)

[http://www.exposium.com/fr/contenu/contact/form\\_contact.htm](http://www.exposium.com/fr/contenu/contact/form_contact.htm)

[www.sial.fr](http://www.sial.fr)

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## **K. Market prospects**

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**Interviewed traders believe that the overall world market for cloves is currently stable and largely influenced by the situation in Indonesia and in Madagascar.**

In Indonesia, two major facts contributed to the stagnation of the market:

- Two years ago, the Indonesian government imposed a ban on imports, which largely contributed to the decline of Madagascar exports and led to higher local prices.
- Taxes on kreteks increased significantly resulting in a drop of consumption of 30% in five years.

In Madagascar, the clove trade needs to be relaunched and several measures should be taken to achieve that:

- Plantations should be developed and new trees should be planted in order to regain the country's competitiveness. Indeed, Madagascar clove trees are often old and scattered in the country.
- Prices should be stabilized to reach a good price/quality ratio.
- Reliable quality control offices should be able to operate in such a way that the exported products meet the requirements of consuming countries. At the same time, producers and exporters should try to improve the quality of their products and related services.

**Export efforts should turn to non-traditional markets.** Traders believe that producing countries should promote the consumption of cloves in non-traditional markets, among which China seems to have the highest import potential, as well as Viet Nam and North African countries. In addition, the Russian spices and condiments market is also reported to be growing rapidly due to the rising personal income and thus the growth of spending on food, especially in Moscow.

**Incentive price and crop diversification: the Tanzanian example.** To motivate clove producers, the Tanzanian government recently increased the prices paid to producers. Besides incentive price, the government is promoting crop diversification in order to be less dependent on market conditions. Crop diversification mainly concerns the production of copra, vanilla and cardamom in the Zanzibar archipelago. In addition to these new crops, algae production is being developed, mainly for export to Japan.

On medium to long term, in all producing countries, the key to export performance seems to lie in various factors including the enhancement of the clove trees, the improvement of local processing and packaging facilities in order to add value to the products, and the stabilization of the price/quality ratio. Besides, producing countries may consider crop diversification as a way to increase their export revenues and to be less dependent on the clove market conditions.

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## Annex 1: Selected Potential Importers

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### France

**AGIPAL S.A**

12 rue de Puebla  
Cp 78600  
Maisons Laffitte  
Tél : +33 (0) 1 39 62 32 77  
Fax : +33 (0) 1 39 62 04 86  
[agipal@wanadoo.fr](mailto:agipal@wanadoo.fr)

**ALBERT VIEILLE**

629 route de Grasse - B.P.217  
06227 VALLAURIS CEDEX  
Tél: +33 (0) 4 93 64 16 72  
Fax: +33 (0) 4 93 64 80 07  
[Albert.Vieille@wanadoo.fr](mailto:Albert.Vieille@wanadoo.fr)

**AVO - LES EPICES D'INGWILLER**

1, rue de la Brasserie  
67340 INGWILLER  
Tél : +33 (0) 3 88 89 45 47  
Fax : +33 (0) 3 88 89 55 41  
[www.epices-avo.com](http://www.epices-avo.com)

**BAROSYL**

1 rue Pacho  
06300 NICE  
Tél: +33 (0) 4 97 08 23 30  
Fax: +33 (0) 4 97 08 23 39  
[barosyl@frmail.net](mailto:barosyl@frmail.net)

**BOURGAREL S.A.**

8 rue Aldebert  
13006 MARSEILLE  
Tél: +33 (0) 4 91 13 70 10  
Fax : +33 (0) 4 91 53 27 72  
[Bourgarel.sa-thierry.bourgarel@wanadoo.fr](mailto:Bourgarel.sa-thierry.bourgarel@wanadoo.fr)

**E. CAVASSE**

BP 5  
06580 PEGOMAS  
Tél : +33 (0) 4 93 40 54 80  
Fax :+33 (0) 4 93 40 91 40

**CEPASCO**

Parc d'Activités de Géménos  
25 avenue de Coulin – BP 125  
13881 GEMENOS CEDEX  
Tél : +33 (0) 4 42 32 23 23  
Fax : +33 (09 4 42 32 23 87  
[www.spigol.com](http://www.spigol.com)

**COLIN PALC**

Z.A.  
67170 MITTELHAUSEN  
Tél: +33 (0) 3 88 51 22 22  
Fax : +33 (0) 3 88 51 44 49

**Mc CORMICK France SAS**

Site Agroparc  
315, rue Marcel Demonque  
84917 AVIGNON Cedex 9  
Tél: +33 (0) 4 90 63 89 89  
Fax : +33 (0) 4 90 63 89 01

## Usines :

Z.I. de Carpensud – BP 150  
84971 CARPENTRAS CEDEX  
Tél : +33 (0) 4 90 63 89 89  
Fax : +33 (0) 4 90 63 89 01  
<http://www.ducros.fr>  
Quartier La Tapy – BP 17  
84170 MONTEUX  
Tél : +33 (0) 4 90 63 63 63  
Fax : +33 (0) 4 90 63 63 43

**DUCLOS TRADING**

133 rue Victor Hugo  
92270 BOIS-COLOMBES  
Tél: +33 (0) 1 46 49 90 10  
Fax: +33 (0) 1 46 49 90 60  
[duclos@duclostrading.com](mailto:duclos@duclostrading.com)

**GOLGEMMA**

Domaine de Castillou  
11190 LUC sur AUDE  
Tél: +33 (0) 4.68 74 17 89  
Fax : +33 (0) 4 68 74 15 79  
[info@golgemma.com](mailto:info@golgemma.com)

**DAREGAL**

6 bd Joffre – BP 8  
91490 MILLY-LA-FORET  
Tél : +33 (0) 1 64 98 29 00  
Fax : +33 (0) 1 64 98 29 57  
[www.daregal.fr](http://www.daregal.fr)

**EPICEA**

Epices Aromates Assaisonnements  
Zone d'Activités de la Brayelle  
179, rue du Champ de Tir  
59553 CUINCY  
Tél : +33 (0) 3 27 87 61 29  
Fax : +33 (0)3 27 87 21 85

**EPICES FUCHS**

1545 avenue JF Kennedy  
ZI de Villefranche  
84200 CARPENTRAS  
Tél : +33 (0) 4 90 67 77 20  
Fax : +33 (0) 4 90 67 27 05

**FUCHS INDUSTRIE France**

20 rue Alfred Kastler  
Z.I. du Ried  
67850 HERRLISHEIM  
Tél : +33 (0) 3 88 55 33 55  
Fax: +33 (0) 3 88 55 33 59

**KERRY PRODUITS JAEGER**

6 rue Robert Moinon – Z.I.  
BP 433  
95194 GOUSSAINVILLE CEDEX  
Tél: +33 (0) 1 34 38 87 87  
Fax : +33 (0) 1 39 92 92 71

**LASERSON S.A**

Z.I. B.P 57  
91151 ETAMPES Cedex  
Tél: +33 (0) 1 69 16 82 00  
Fax: +33 (0) 1 64 94 98 97  
[info@laserson.com](mailto:info@laserson.com)

**LABORATOIRES J.P. DAUL**

BP 89 – Ville-sur-Yron  
54803 JARNY  
Tél : +33 (0) 3 82 47 12 62  
Fax : +33 (0) 3 82 33 96 92

**LACO**

28 Chemin de la Buzine  
13396 MARSEILLE CEDEX 11  
Tél : +33 (0) 4 91 36 40 36  
Fax : +33 (0) 4 91 27 07 72  
[laco@tramier.fr](mailto:laco@tramier.fr)  
<http://www.tramier.fr>

**LHG (laboratoire d'herboristerie générale)**

269, route des 3 Lucs  
La Valentine  
BP : 87  
13371 Marseille Cedex 11  
Tél : +33 (0) 491 364 020  
Fax : +33 (0) 491 431 405  
[info@lhg-fr.com](mailto:info@lhg-fr.com)

**LE JARDIN DES EPICES**

1, Faubourg des Vosges  
68920 WINTZENHEIM  
Tél : +33 (0) 3 89 27 11 51  
Fax : +33 (0) 3 89 27 16 88

**LES PRODUITS FRANÇAIS EVOLUTION**

3, rue du Château de Selles BP 87  
59400 CAMBRAI  
Tél : +33 (0) 8 25 07 75 62  
Fax : +33 (0) 3 27 37 28 40  
[www.lpfe.fr](http://www.lpfe.fr)

**M.P.E.**

6 Chemin St Joseph - B.P. 25265  
06131 GRASSE Cedex  
Tél: +33 (0) 4 93 09 19 27  
Fax: +33 (0) 4 93 77 89 88

**MOGUNTIA EST EPICES**

Site de Mundolsheim  
6, rue Vauban BP 11066  
67450 MUNDOLSHEIM  
Tél : +33 (0) 3 88 20 40 88  
Fax : +33 (0) 3 88 20 18 85

**PROVA**

46 rue Colmet Lepinay  
93100 MONTREUIL  
Tél : +33 (0) 1 48 18 17 20  
Fax : +33 (0) 1 42 87 10 13

**QUIMDIS S.A.**

85 rue Edouard Vaillant - B.P 329  
92307 LEVALLOIS PERRET Cx  
Tél : +33 (0) 1 55 46 50 00  
Fax: +33 (0) 1 47 39 91 90  
[quimdis@quimdis.com](mailto:quimdis@quimdis.com)

**ROCHIAS**

Parc Technologique de Lavaur  
63500 ISSOIRE  
Tél : +33 (0) 4 73 55 68 68  
Fax : +33 (0) 4 73 55 68 60

**SACI - C.F.P.A.**

9 rue Richepanse  
75008 PARIS  
Tél: +33 (0) 1 42 60 12 83  
Fax: +33 (0) 1 42 61 42 79

**SOCOHERB**

1 bd Philippe Mabilly  
13308 MARSEILLE CEDEX 14  
Tél : +33 (0) 4 91 02 60 61  
Fax : +33 (09) 4 91 02 81 28

**SOFRAL**

Usine de Strasbourg  
223 route de Schirmeck  
BP 40  
67034 STRASBOURG CEDEX 2  
Tél : +33 (0) 3 90 20 45 45  
Fax : +33 (0) 3 90 20 45 46  
[www.sofral.fr](http://www.sofral.fr)

**TRADIMPEX J.M. THIERCELIN**

11-13 rue Gustave Eiffel  
Z.I. St Nicolas  
BP 23  
94510 LA QUEUE EN BRIE  
Tél: +33 (0) 1 45 93 02 32  
Fax: +33 (0) 1 45 93 08 10

**UNILEVER BESTFOODS FRANCE**

Division AMORA MAILLE  
48 Quai Nicolas Rolin – BP 670  
21017 DIJON CEDEX  
Tél: +33 (0) 3 80 44 44 44  
Fax: +33 (0) 3 80 44 44 50  
<http://www.maille.com>  
Usine : Z.I. de la Norge  
Tél : +33 (0) 3 80 44 44 44  
Fax : +33 (0) 3 80 46 63 19  
21800 CHEVIGNY-ST-SAUVEUR

**Vanipro**

Vanille et Produits  
28/30 RUE VERDI  
06000 NICE FRANCE  
Tel: + 33 49705 22 90  
[contact@vanipro.com](mailto:contact@vanipro.com)  
<http://www.vanipro.com>

**VANUA**

124, rue de l'Epidème  
59200 TOURCOING  
Tél: +33 (0) 3 20 40 38 60  
Fax : +33 (0) 3 20 40 38 61

**JC VIGIN DISTRIBUTION**

AROMATES DES GORGES DU VERDON  
Les Escombettes  
83630 BAUDUEN  
Tél : +33 (0) 4 94 70 09 80  
Fax : +33 (0) 4 94 70 08 66

## GERMANY

### FUCHS GEWUERZE GmbH

Westring 15-17  
49201 Dissen  
Tel: +49 (0) 54 21/ 3090  
Fax: +49 (0) 54 21 / 309111  
[info@fuchs-gewuerze.de](mailto:info@fuchs-gewuerze.de)  
[www.fuchs-gewuerze.de](http://www.fuchs-gewuerze.de)

### FUCHS GmbH

Osterfeldstrasse. 2-8  
49326 Melle-Wellingholzhausen  
Tel: +49 (0) 54 29/ 2090  
Fax: +49 (0) 54 29/ 209 403  
[info@fuchsspice.com](mailto:info@fuchsspice.com)

### JANTZEN & DEEKE GmbH

Katharinenstrasse 30  
20457 Hamburg  
Tel: +49 (040) 376 8010  
Fax: +49 (040) 374 3415

### SCHWAB GmbH

Bei den Muhren 70  
20457 Hamburg  
Tel: +49 (040) 364 971  
Fax: +49 (040) 367 790

### RAPS GmbH & Co. KG

Adalbert-Raps-Strasse 1  
95326 Kulmbach  
Tel: +49 (9221) 80 70  
Fax: +49 (9221) 807 100  
[www.raps.de](http://www.raps.de)  
[info@raps.de](mailto:info@raps.de)  
[bestellservice@raps.de](mailto:bestellservice@raps.de)

### Hamburger Gewürz-Mühle Hermann Schulz GmbH

Grossmannstrasse 221  
D - 20539 HAMBURG  
Tel.: +49 (0) 40 789 701-0  
Fax: +49 (0) 40 789 701-30  
[info@gewuerzmuehle.de](mailto:info@gewuerzmuehle.de)  
<http://www.gewuerzmuehle.de>

### HOT SPICY'S

Gewürzmuseum  
Am Sandetorkai 32  
20457 Hamburg  
Tel: +49 (0) 40 36 79 89  
Fax: +49 (0) 40 36 79 92  
[mail@spicys.de](mailto:mail@spicys.de)

### CORNEHLS UND BOSSE

Kaesar Wihlem Strasse 115  
20355 Hamburg  
Tel: + 49 (0) 40 35 54 79 10  
Fax: +49 (0) 40 35 54 79 17  
[hans.bargmann@cobo.de](mailto:hans.bargmann@cobo.de)

### KRAUTER MIX GmbH

Wiesentheider Strasse 4  
97355 Abtswind  
Tel : +49 (0) 93 83 204 287  
Fax: +49 (0) 93 83 204 243  
[www.kraeuter-mix.de](http://www.kraeuter-mix.de)

## NETHERLANDS

### NEDSPICE PRODUCTS BV

Weena 260, 3012 NJ Rotterdam  
P.O. Box 253  
3000 AG Rotterdam  
Tel: +31-(0) 10-2801380  
Fax: +31-(0) 10-4147425  
[spices@nedspice.com](mailto:spices@nedspice.com)  
<http://www.nedspice.com/>

### EUROMA

Koninklijke Euroma BV  
Kloosterweg 3  
P.O. Box 4  
8190 AA Wapenveld  
The Netherlands  
Tel: +31 (0) 38 447 31 73  
Fax: +31 (0) 38 447 31 95  
[Info@euroma.com](mailto:Info@euroma.com)  
<http://www.euroma.nl/>

### VERSTEGEN B.V

Spice and sauce  
P.O Box 11041  
3004 EA Rotterdam  
The Netherlands  
Tel: +31 (0) 10 245 51 00  
Fax: +31 (0) 10 245 51 10

### UNIFINE B. V

Your partner in foodsolutions  
Weverseinde 343  
3297 LJ Puttershoek  
Tel: +31-(0) 78 6769245  
Fax: +31-(0) 78 6762870  
[Ronald.Slot@Unifine.nl](mailto:Ronald.Slot@Unifine.nl)  
<http://www.wyko.nl/NL/1/>

**CATZ INTERNATIONAL B.V**  
Blackburg Building, Blaak 22  
P.O. Box 180, 3000 AD Rotterdam  
The Netherlands  
Fax: +31 (0) 10 411 89 13

Tel: +31 (0) 10 411 34 40  
[tropical@catz.nl](mailto:tropical@catz.nl)  
[http://www.catz.nl/Frameset\\_prod\\_spices.htm](http://www.catz.nl/Frameset_prod_spices.htm)

## SINGAPORE

**Nomanbhoy & Sons PTE LTD**  
101 Cecil Street  
#24-01 Tong Eng Building  
Singapore 069533  
Tel: +65 6224 13 13  
Fax: +65 6225 29 19  
[nomanbhoysons@pacific.net.sg](mailto:nomanbhoysons@pacific.net.sg)

**V.V. Doshi Trading PTE LTD**  
Robinson Road P.O. Box 219  
Singapore 900419  
Tel: +65 6336 48 55  
Fax: +65 6334 47 70  
[vvdoshi@singnet.com.sg](mailto:vvdoshi@singnet.com.sg)  
[vvdoshi@poboxes.com](mailto:vvdoshi@poboxes.com)

## UNITED KINGDOM

**VERSTEGEN LTD**  
Verstegen Spices & Sauces UK Ltd  
Parkeston House, Parkeston Quay  
Harwich, Essex CO12 4PJ  
Phone: +44 (0)1255 554100  
Fax: +44 (0)1255 551145  
[info@verstegen.co.uk](mailto:info@verstegen.co.uk)  
<http://www.verstegen.co.uk/contactus.html>

[www.organicherbtrading.com](http://www.organicherbtrading.com)  
[info@organicherb.com](mailto:info@organicherb.com)

**THE SPICE SHOP**  
1, Blenheim Crescent  
London W11 2EE  
Tel: +44 20 7221 4448  
[www.thespiceshop.co.uk](http://www.thespiceshop.co.uk)

**WORLD OF SPICE**  
Billerorway Essex  
CM 120 DT  
Tel: +44 1277 633 303  
Fax: +44 (0) 1277 633 036  
[www.Worldofspice.co.uk](http://www.Worldofspice.co.uk)

**MIDLAND HERBS & SPICES**  
Unit 1a, Formans Trading Estate  
Pentos Drive  
Birmingham, West Midlands B11 3TA  
Tel: +44 (0) 121 778 5771  
Fax: +44 (0) 121 777 1348  
[Mail.midland.herb@virgin.net](mailto:Mail.midland.herb@virgin.net)  
[www.midlandherb.com](http://www.midlandherb.com)

**STEENBERGS ORGANIC PEPPER & SPICE**  
P.O Box 48, Boroughbridge, York,  
North Yorkshire YO51 9ZW  
Tel: +44 17 65 64 00 88  
Fax: +44 17 65 64 01 01  
[www.steenberg.co.uk](http://www.steenberg.co.uk)

**COTSWOLD HEALTH PRODUCTS Ltd**  
5-8, Tabernacle RD  
Wotton-under-edge  
Gloucestershire GL12 7EF  
Tel: +44 (0) 1453 84 36 94  
Fax: +44 (0) 1453 521 375  
[sales@cotsherb.co.uk](mailto:sales@cotsherb.co.uk)  
[www.cotsherb.co.uk](http://www.cotsherb.co.uk)

**THE SPICE OF LIFE**  
P:O Box 18023, Aberdeen  
Aberdeenshire AB23 8RB  
Tel +44 1224 82 83 96

**RAFI'S SPICE BOX**  
3, Gaol Lane, Sudbury  
Suffolk CO10 1JL  
Tel: +44 (0) 1787 88 1992  
[www.spicebox.co.uk](http://www.spicebox.co.uk)

**ISLAND SPICE Ltd**  
The Mii, Market Square, Kirkby Lonsdale  
Carnforth, Lancashire LA6 2AF  
Tel: +44 15242 716 55  
Fax: +44 15242 71 655  
[www.islandspice.co.uk](http://www.islandspice.co.uk)

**SPICETECH UK Ltd**  
15 Buxton Road, Disley  
Cheshire, SK12 2DZ, UK  
Tel: +44 (0) 162 561 1888  
[products@spicetech.co.uk](mailto:products@spicetech.co.uk)  
<http://www.spicetech.co.uk>

**ORGANIC HERB TRADING Co**  
Court farm, Milverton  
Taunton, Somerset TA4 +nf  
Tel: +44 1823 401 205  
Fax: +44 1823 401 001

**JULAIN GRAVES Ltd**

Unit 95, The Pensnett State  
King Swinford, West Midlands  
DW6 7FT  
Tel: +44 (0) 384 282 700  
Fax: +44 (0) 384 282 716  
[andrewclarke@julian.co.uk](mailto:andrewclarke@julian.co.uk)  
[www.juliangraves.co.uk](http://www.juliangraves.co.uk)

**SPICE BLANDERS Ltd**

5, Malton St, Hull,  
North Humberside HU9 1BA  
Tel: +44 1482 226415  
Fax +44 148 232 9274  
[sales@spiceblenders.co.uk](mailto:sales@spiceblenders.co.uk)  
[www.visprod.co.uk](http://www.visprod.co.uk)

**GREEN CUISINE Ltd**

Unit 3, Threxton Industrial Estate,  
Watton  
Thetford, Norfolk IP25 6NG  
Tel: +44 (0) 1953 882991  
Fax : +44 (0) 1953 885 401  
[greenuisine@btinternet.com](mailto:greenuisine@btinternet.com)  
[www.greenuisine.co.uk](http://www.greenuisine.co.uk)

**British Pepper & Spice Co.Ltd**

Rhosili Rd  
Brackmills Industrial Estate  
Northampton, Northamptonshire NN4 7AN  
Tel: +44 (0) 1604 766461  
Fax: +44 (0) 1604 73 156  
[www.britishpepper.co.uk](http://www.britishpepper.co.uk)  
[sales@britishpepper.co.uk](mailto:sales@britishpepper.co.uk)

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## **Annex 2: Other Useful Addresses**

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### **European Spice Association (ESA)**

Reuterstraße 151  
53113 Bonn, Germany  
Tel: +49 228 21 61 62  
Fax: +49 228 22 94 60  
ESA@verbaendebuero.de

### **Syndicat national des transformateurs de poivres, épices, aromates et vanille (S.N.P.E.)**

8, rue de l'Isly  
75008 Paris, France  
Tel: +33 1 45.22.56.05

### **Fédération des Industries de la Parfumerie (F.I.P.)**

8, place du Général Catroux  
75017 PARIS, France  
Tel: +33 1 44.15.83.83

### **Seasoning and Spice Association**

6 Catherine Street  
London WC2B 5 JJ  
United Kingdom  
Tel: +44 207-836 24 60  
Fax: +44 207 836 05 80

### **Fachverband der Nahrungs-und Genussmittel-Industrie Österreichs**

P. O. Box 144  
1037 Vienna, Austria  
Tel: +43-1 7122121  
Fax: +43-1 7131802

### **Fachverband der Gewürzindustrie ev.**

Reuterstrasse 151  
D-53113 Bonn, Germany  
Tel: +49 228 216 162  
Fax: +49 228 229 460

### **Danish Spices Association/o Scandeco Ltd.**

Dampfeergevej 21  
232100 Copenhagen, Denmark  
Tel: +45 31 179409  
Fax: +45-35 262904

### **The American Spice Trade Association**

2025 M Street NW  
Suite 800  
Washington, DC 20036, USA  
Tel: +1 202 367 1127  
Fax: +1 202 367 2127  
[www.astaspice.org](http://www.astaspice.org)

**Food Standards Agency**

Aviation House125  
Kingsway  
London WC2B 6NH  
United Kingdom  
Tel: +44 207 276 8000  
[www.foodstandards.gov.uk](http://www.foodstandards.gov.uk)

**Nederlandse Vereniging Voor de Specerijhandel  
(Netherlands Spice Trade Association)**

c/o Van Sillevoldt Specerijen B.V.  
P.O Box 64  
Papendrecht 3350 AB, Netherlands  
Tel: +31-78 6151755  
Fax: +31-78 6153107

**British Essential Oil Association (BEOA)**

15 Exeter Mans  
London, United Kingdom  
Tel: +44 20-8450-3713  
Fax: +44 20-8450-3197

**International Organization for Standardization (ISO)**

1, rue de Varembe  
Case postale 56  
1211 Geneva 20, Switzerland  
Tel: +41 22 749 01 11  
Fax: +41 22 733 34 30  
[www.iso.org](http://www.iso.org)  
Email: [Central@ISO.org](mailto:Central@ISO.org)  
[www.iso.org](http://www.iso.org)

**International Federation of Organic Agriculture Movements (IFOAM)**

C/o Ökozentrum Imsbach  
66636 Tholey-Theley, Germany  
Tel: +49 6853 919 890  
Fax: +49 6853 919 899  
<http://www.ifoam.org>

**Duales System Deutschland AG**

Frankfurter Straße 720-726  
51145 Köln, Germany  
Tel: +49 22 03 93 70  
Fax: +49 22 03 93 71 90  
[www.gruener-punkt.de](http://www.gruener-punkt.de)

**European Flavour & Fragrance Association (EFFA)**

Square Marie-Louise, 49  
1000 Brussels, Belgium  
Tel: +32 2 238 99 05  
Fax: +32 2 230 02 65  
E-mail: [secretariat@effaorg.org](mailto:secretariat@effaorg.org)  
[www.ffa.be](http://www.ffa.be)

**International Federation of the Essential Oil and Aroma Trades (IFEAT)**

GATFA House  
6 Chapel Place  
Rivington Street  
London EC2A 3SH  
United Kingdom  
Tel: +44 20 7729 5904  
Fax: +44 20 7814 8383  
E-mail: [secretariat@ifeat.org](mailto:secretariat@ifeat.org)  
<http://www.ifeat.org>

**The European Cosmetic toiletry and perfumery association (COLIPA)**

Avenue Herrmann Debroux 15A  
1160 Auderghem – Brussels  
Belgium  
Tel: +32 2 227 66 10  
Fax: +32 2 227 66 27  
E-mail: [colipa@colipa.be](mailto:colipa@colipa.be)  
<http://www.colipa.com>

**United Nations Economic Commission for Europe (UN/ECE)**

Palais des Nations  
1211 Geneva 10  
Switzerland  
Tel: +41 22 917 12 34  
Fax: +41 22 917 05 05  
[www.unece.org](http://www.unece.org)

**AB Bodén & Lindeberg**

Arninge Industriområde, TÄBY  
Sweden  
Box 7072  
187 12 TÄBY  
Sweden  
tel 08-544 408 00  
fax 08-544 408 20  
[info@bodenlindeberg.se](mailto:info@bodenlindeberg.se)

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## **Annex 3: Import Promotion Offices**

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### **DENMARK**

DIPO (The Danish Import Promotion Office for Products from Developing Countries)  
Borsen  
1217 COPENHAGEN K  
Tel: +45 339 505 00  
Fax: +45 331 205 25  
E-mail: [dipo@commerce.dk](mailto:dipo@commerce.dk)  
[www.dipo.dk](http://www.dipo.dk)

### **GERMANY**

Deutsche Gesellschaft für Technische Zusammenarb. (GTZ) GmbH  
Dag-Hammarskjöld-Weg 1-5  
65760 ESCHBORN  
Tel: +496 196 791 229  
Fax: +496 196 796 150  
[www.gtz.de/english](http://www.gtz.de/english)

### **ITALY**

Istituto Nazionale per il Commercio Estero (ICE)  
Via Liszt, 21  
00144 ROME EUR  
Tel: +39 06 599 294 84  
Fax: +3906 542 200 07  
E-mail: [cooperazione@ice.it](mailto:cooperazione@ice.it)  
[www.italtrade.com](http://www.italtrade.com)

### **NETHERLANDS**

Centre for the Promotion of Imports from Developing Countries (CBI)  
Beursplein 37, 5th Floor  
P.O. Box 30009  
3001 DA ROTTERDAM  
Tel: +31 10 201 34 34  
Fax: +31 10 411 40 81  
E-mail: [cbi@cbi.nl](mailto:cbi@cbi.nl)  
[www.cbi.nl](http://www.cbi.nl)

### **SWEDEN**

Association of Swedish Chambers of Commerce  
P.O. Box 16050  
103 21 STOCKHOLM  
Tel: +46 8 555 100 00  
Fax: +46 8 566 316 35  
E-mail: [tradeoffice@chambertrade.com](mailto:tradeoffice@chambertrade.com)  
[www.cci.se](http://www.cci.se)

## Annex 4 Tariffs

### Tariff barriers for cloves reported by the EU in 2005

| Tariff measures  | Tariff ad-valorem |
|--|-------------------|
| MFN duties (Applied)   | 8%                |
| European Union rate  | 0%                |
| Preferential tariff for Overseas Countries and Territories   | 0%                |
| Preferential tariff for Generalized System of Preferences countries                                    | 2.8%              |
| Preferential tariff for Least Developed Countries  | 0%                |
| Preferential tariff for African, Caribbean and Pacific States (associated with EEC) countries          | 0%                |
| Preferential tariff for Andorra  | 0%                |
| Preferential tariff for Albania  | 0%                |
| Preferential tariff for Bosnia and Herzegovina   | 0%                |
| Preferential tariff for Croatia  | 0%                |
| Preferential tariff for Macedonia  | 0%                |
| Preferential tariff for Yugoslavia   | 0%                |
| Preferential tariff for Egypt  | 0%                |
| Preferential tariff for Gaza strip   | 0%                |
| Preferential tariff for Jordania   | 0%                |
| Preferential tariff for Lebanon  | 0%                |
| Preferential tariff for Syria  | 0%                |
| Preferential tariff for Chile  | 1.1%              |
| Preferential tariff for Mexico   | 0%                |
| Preferential tariff for South Africa   | 0%                |
| Preferential tariff for Turkey   | 0%                |
| Preferential tariff for countries beneficiary of the incentive arrangement for sustainable development | 0%                |
| Preferential tariff for Bulgaria   | 0%                |
| Preferential tariff for Romania  | 0%                |

Source: national data reported to UNCTAD (TRAINS) and ITC (Market Access Map)

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## **Annex 5: Selected Periodicals**

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### **Foodnews**

Agra Europe  
80 Calverley Road  
Tunbridge Wells  
Kent TN1 2UN  
United Kingdom  
Tel: +44 1 892 533 813  
Fax: +44 1 892 511 803  
[www.agra-food-news.com](http://www.agra-food-news.com)

### **Eurofood**

Agra Europe  
80 Calverley Road  
Tunbridge Wells  
Kent TN1 2UN  
United Kingdom  
Tel: +44 1 892 533 813  
Fax: +44 1 892 511 803  
[www.agra-net.com](http://www.agra-net.com)

### **The Public Ledger**

80 Calverly Road  
Tunbridge Wells  
Kent TN1 2UN  
United Kingdom  
Tel: +44 1 892 533 813  
Fax: +44 1 892 511 803  
[www.public-ledger.com](http://www.public-ledger.com)

### **Marchés tropicaux et méditerranéens**

56 rue de l'Université  
75007 Paris  
France  
Tel: +33 1 53 63 10 80  
Fax: +33 1 45 48 75 32  
[info@marches-tropicaux.com](mailto:info@marches-tropicaux.com)

### **Oils and fats international**

dmg world media (uk) ltd  
Westgate House  
120/130 Station Road  
Redhill  
Surrey  
RH1 1ET  
Tel: +44 (0) 1737 855000  
Fax: +44 (0) 1737 855475

### **Perfumer & Flavorist**

Customer Service  
subscriptions  
PO Box 323  
Oregon, IL 61054 0506  
USA  
Tel: +1 815-732-9004  
Fax: +1 815-732-9889  
<http://www.perfumerflavorist.com>

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## Annex 6: Sources of Information

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Soap, Perfumery and Cosmetics, various issues

Foodnews, various issues

International trade in cloves, nutmeg, mace, cinnamon, cassia and their derivatives, July 1986, Tropical Development and Research Institute, United Kingdom.

Trends on the World Markets for Spices and Quality and Safety Concerns, International Trade Centre UNCATD/WTO, 1996.

Global Overview of International Trade and Consumption of Spices, International Trade Centre UNCATD/WTO, 1996

The global spice trade and the Uruguay round agreements, International Trade Centre UNCATD/WTO, Commonwealth Secretariat, 1996.

Clean Spices, A guidebook for shippers of products to the U.S. spice trade; The American Spice Trade Association, 1991, revised 2000.

The Public Ledger; 80 Calverly Road; Tunbridge Wells; Kent TN1 2UN; UK:  
<http://www.public-ledger.com>

Marchés tropicaux et méditerranéens; 190 Boulevard Haussmann; 75008 Paris; France:  
<http://www.marches-tropicaux.com>

Spices, Tropical agricultural series, Longman Group Limited, 1981.

Market Brief – Spices and Herbs, Danish Import Promotion Office for Products From Developing countries (DIPO), 2003

Market Brief – Spices, Swedish International Development Cooperation Agency (SIDA), 2003

Oils and fats international, various issues

Marchés tropicaux et méditerranéens, various issues

National Agency for Export Development, Indonesia

Perfumer & flavorist, various issues

Indian spices, various issues

Produits d'épicerie sèche, janvier 2001, Centre français du commerce extérieur (CFCE)

Transport information service (GDV), cargo loss prevention information from German marine insurers, [http://www.tis-gdv.de/tis\\_e/ware/gewuerze/nelken/nelken.htm#informationen](http://www.tis-gdv.de/tis_e/ware/gewuerze/nelken/nelken.htm#informationen)

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The International Trade Centre (ITC) is the technical cooperation agency of the United Nations Conference on Trade and Development (UNCTAD) and the World Trade Organization (WTO) for operational, enterprise-oriented aspects of trade development.

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- ▶ Development of trade support services
- ▶ Trade information
- ▶ Human resource development
- ▶ International purchasing and supply management
- ▶ Needs assessment, programme design for trade promotion



**International Trade Centre**

U N C T A D / W T O

*ITC: Your partner in trade development*

For more information:

*Street address:* ITC, 54–56, rue de Montbrillant, 1202 Geneva, Switzerland.

*Postal address:* ITC, Palais des Nations, 1211 Geneva 10, Switzerland.

*Telephone:* +41 22 730 0111 *fax:* +41 22 733 4439 *e-mail:* [itcreg@intracen.org](mailto:itcreg@intracen.org) *Internet:* <http://www.intracen.org>