STANDARD FOR EDIBLE FATS AND OILS
NOT COVERED BY INDIVIDUAL STANDARDS

CXS 19-1981

1. SCOPE

This Standard applies to oils and fats and mixtures thereof in a state for human consumption. It includes oils and fats that have been subjected to processes of modification (such as trans-esterification or hydrogenation) or fractionation.

This Standard does not apply to any oil or fat which is covered by one of the following:

- the Standard for Named Animal Fats;
- the Standard for Named Vegetable Oils;
- the Standard for Olive Oils and Olive-pomace Oils;
- the Standard for Fish Oils.

2. DESCRIPTIONS

2.1 **Edible fats and oils** are foodstuffs defined in Section 1 which are composed of glycerides of fatty acids. They are of vegetable, animal or marine origin. They may contain small amounts of other lipids such as phosphatides, of unsaponifiable constituents and of free fatty acids naturally present in the fat or oil. Fats of animal origin must be produced from animals in good health at the time of slaughter and be fit for human consumption.

2.2 **Virgin fats and oils** are edible vegetable fats and oils obtained, without altering the nature of the oil, by mechanical procedures, e.g. expelling or pressing, and the application of heat only. They may be purified by washing with water, settling, filtering and centrifuging only.

2.3 **Cold pressed fats and oils** are edible vegetable fats and oils obtained, without altering the oil, by mechanical procedures, e.g. expelling or pressing, without the application of heat. They may have been purified by washing with water, settling, filtering and centrifuging only.

3. FOOD ADDITIVES

Antifoaming agents, antioxidants and colours used in accordance with Tables 1 and 2 of the *General Standard for Food Additives* (CXS 192-1995) in food category 02.1 (Fats and oils essentially free from water) and its sub-categories, and emulsifiers in food category 02.1.2 (Vegetable oils and fats) are acceptable for use in foods conforming to this Standard.

No additives are permitted in virgin or cold pressed oils covered by this Standard.

4. CONTAMINANTS

The products covered by this Standard shall comply with the Maximum Levels of the *General Standard for Contaminants and Toxins in Food and Feed* (CXS 193-1995).

4.1 **Pesticide residues**

The products covered by the provisions of this Standard shall comply with those maximum residue limits established by the Codex Alimentarius Commission for these commodities.

5. HYGIENE

It is recommended that the products covered by the provisions of this Standard be prepared and handled in accordance with the appropriate sections of the *General Principles of Food Hygiene* (CXC 1-1969), and other relevant Codex texts such as Codes of Hygienic Practice and Codes of Practice.

The products should comply with any microbiological criteria established in accordance with the *Principles and Guidelines for the Establishment and Application of Microbiological Criteria Related to Foods* (CXG 21-1997).

6. LABELLING

The product shall be labelled in accordance with the *General Standard for the Labelling of Prepackaged Foods* (CXS 1-1985).

6.1 **Name of the food**

The designation "virgin fat" or "virgin oil" may only be used for individual fats or oils conforming to the definition in Section 2.2 of this Standard.

The designation "cold pressed fat" or "cold pressed oil" may only be used for individual fats or oils conforming to the definition in Section 2.3 of this Standard.
6.2 Labelling of non-retail containers

Information on the above labelling requirements shall be given either on the container or in accompanying documents, except that the name of the food, lot identification and the name and address of the manufacturer or packer shall appear on the container.

However, lot identification and the name and address of the manufacturer or packer may be replaced by an identification mark, provided that such a mark is clearly identifiable with the accompanying documents.
OTHER QUALITY AND COMPOSITION FACTORS

These quality and composition factors are supplementary information to the essential composition and quality factors of the standard. A product, which meets the essential quality and composition factors but does not meet these supplementary factors, may still conform to the standard.

1. QUALITY CHARACTERISTICS

Colour:
Characteristic of the designated product.

Odour and taste:
Characteristic of the designated product and free from foreign and rancid odour and taste.

<table>
<thead>
<tr>
<th></th>
<th>Maximum level</th>
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<tbody>
<tr>
<td>Matter volatile at 105°C:</td>
<td>0.2% m/m</td>
</tr>
<tr>
<td>Insoluble impurities:</td>
<td>0.05 % m/m</td>
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<tr>
<td>Soap content:</td>
<td>0.005 % m/m</td>
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<tr>
<td>Iron (Fe):</td>
<td></td>
</tr>
<tr>
<td>Refined fats and oils</td>
<td>2.5 mg/kg</td>
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<tr>
<td>Virgin fats and oils</td>
<td>5.0 mg/kg</td>
</tr>
<tr>
<td>Cold pressed fats and oils</td>
<td>5.0 mg/kg</td>
</tr>
<tr>
<td>Copper (Cu):</td>
<td></td>
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<tr>
<td>Refined fats and oils</td>
<td>0.1 mg/kg</td>
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<tr>
<td>Virgin fats and oils</td>
<td>0.4 mg/kg</td>
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<tr>
<td>Cold pressed fats and oils</td>
<td>0.4 mg/kg</td>
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<tr>
<td>Acid value:</td>
<td></td>
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<tr>
<td>Refined fats and oils</td>
<td>0.6 mg KOH/g fat or oil</td>
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<tr>
<td>Virgin fats and oils</td>
<td>4.0 mg KOH/g fat or oil</td>
</tr>
<tr>
<td>Cold pressed fats and oils</td>
<td>4.0 mg KOH/g fat or oil</td>
</tr>
<tr>
<td>Peroxide value:</td>
<td></td>
</tr>
<tr>
<td>Virgin oils and cold pressed fats and oils</td>
<td>up to 15 milliequivalents of active oxygen/kg oil</td>
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<tr>
<td>Other fats and oils</td>
<td>up to 10 milliequivalents of active oxygen/kg oil</td>
</tr>
</tbody>
</table>

2. METHODS OF ANALYSIS AND SAMPLING

Determination of acid value (AV)
According to IUPAC 2.201 or ISO 660: 1996.

Determination of peroxide value (PV)
According to IUPAC 2.501 (as amended), AOCS Cd 8b - 90 (97) or ISO 3961: 1998.

Determination of matter volatile at 105°C

Determination of insoluble impurities
According to IUPAC 2.604 or ISO 663: 1999.

Determination of soap content
According to BS 684 Section 2.5.

Determination of iron
According to IUPAC 2.631, ISO 8294: 1994 or AOAC 990.05.

Determination of copper
According to IUPAC 2.631, ISO 8294: 1994 or AOAC 990.05.