

not exceeding in concentrations as specified under Prevention of Food Adulteration Rules, 1955.

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**SCHEDULE - V**  
(See Rules 3 and 4)

Agmark grade designations and definition of quality for Linseed Oil

Definition of Quality

| Grade designation | Moisture and insoluble impurities percent by weight (not more than) | Colour on lovibond scale* in 1/4 inch cell expressed as Y + 10 R (not deeper than) | Specific gravity at 30°C/30°C | Refractive Index at 40°C | Saponification value | Iodine value (Wij's method (not less than) | Unsaponifiable matter percent by weight (not more than) | Acid value (not more than) |
|-------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------|--------------------------|----------------------|--------------------------------------------|---------------------------------------------------------|----------------------------|
| 1                 | 2                                                                   | 3                                                                                  | 4                             | 5                        | 6                    | 7                                          | 8                                                       | 9                          |
| Refined           | 0.10                                                                | 10                                                                                 | 0.923 to 0.926                | 1.4720 to 1.4750         | 188 to 195           | 170                                        | 1.5                                                     | 0.5                        |
| Semi-Refined      | 0.10                                                                | 10                                                                                 | 0.923 to 0.928                | 1.4720 to 1.4750         | 188 to 195           | 170                                        | 1.5                                                     | 0.5                        |
| Raw               | 0.25                                                                | 35                                                                                 | 0.923 to 0.928                | 1.4720 to 1.4750         | 188 to 195           | 170                                        | 1.5                                                     | 4.0                        |

|                         |                          |              |                       |             |                      |
|-------------------------|--------------------------|--------------|-----------------------|-------------|----------------------|
| Foots percent by volume | Test for the presence of | Test of lead | Flash point by Pensky | Description | General Requirements |
|-------------------------|--------------------------|--------------|-----------------------|-------------|----------------------|

| (not more than) break |                  | Martens<br>(closed cup)<br>method in<br>°C min. |     |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|------------------|-------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10                    | 11               | 12                                              | 13  | 14                                                                                                                                                                                                                                                                                                                                                  | 15                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| nil                   | to pass the test | to pass the test                                | --- | <p>Linseed oil shall be obtained by a process of expressing clean and sound (<i>Linum usitatissimum</i>) only. The refining of oil shall be done by neutralisation with alkali and/or physical refining and/or activated carbon. The oil may be treated with mineral acid before alkali refining. No other chemical agent shall be used.</p>        | <p>The oil shall be clear and free from turbidity when filtered sample is kept at 30°C for 24 hrs. It shall be free from rancidity, adulterants, sediments, suspended and other foreign matter or oils. It shall also be free from separated water and added colouring or flavouring substances. The oil may contain permitted antioxidants not exceeding in concentration as specified under Prevention of Food Adulteration Rules, 1955.</p> |
| nil                   | Neg.             | ---                                             | 125 | <p>Linseed oil shall be obtained either by a process of expressing clean and sound linseed (<i>Linum usitatissimum</i>) or by a process of solvent extraction of sound linseed cake or linseed using permitted food grade solvents. The oil shall be neutralised with alkali and/or physical refining and/or by miscella-refining bleached with</p> | <p>The oil shall be clear and free from rancidity, adulterants, sediments, suspended and other foreign matter or oil. It shall also be free from separated water and added colouring or flavouring substances.</p>                                                                                                                                                                                                                             |

bleaching earth and/or  
activated carbon. No other  
chemical shall be used.

|     |      |    |    |                                                                                                                                   |                                                                                                                                                                                                                          |
|-----|------|----|----|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.0 | Neg. | -- | -- | Linseed oil shall be obtained<br>by a process of expressing<br>clean and sound linseed<br>( <i>Linum usitatissimum</i> )<br>only. | The oil shall be clear and free<br>from rancidity, adulterants,<br>sediments, suspended and<br>other foreign matter or oils.<br>It shall also be free from<br>separated water and colouring<br>or flavouring substances. |
|-----|------|----|----|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* In the absence of Lovibond Tintometer, the colour shall be matched against standard colour comparators.

\*\* Containers of Linseed oil of Semi-refined shall be suitable marked 'For Non-edible uses only'.

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#### SCHEDULE-VI (See Rules 3 and 4)

##### Agmark grade designation and definition of quality of Castor Oil

##### Definition of Quality

| Grade Designation | Moisture and<br>impurities<br>percent by<br>weight<br>(maximum) | Colour on<br>Lovibond<br>scale expressed<br>as Y + 5R<br>(maximum) | Specific gravity<br>at 30°C/30°C | Refractive<br>Index at 40°C | Clarity in height<br>of column of oil<br>in cms. through<br>which Bourgoise<br>print can be read in<br>100 ml. nessler tube |
|-------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 1                 | 2                                                               | 3                                                                  | 4                                | 5                           | 6                                                                                                                           |
| Medicinal         | 0.25                                                            | 3.5 (in 1" cell)                                                   | 0.954<br>to                      | 1.4700<br>to                | 10.0                                                                                                                        |