

**USDA COMMODITY REQUIREMENTS**

**SFSO6  
REFINED SUNFLOWER SEED OIL  
FOR USE IN EXPORT PROGRAMS**

Effective Date: **12/31/09**

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**Part 1 COMMODITY SPECIFICATIONS**

**Section 1.1 COMMODITIES**

A. Types of Sunflower Seed Oil

- (1) **Mid-Oleic Oil (NuSun)** shall be fully refined, bleached, deodorized, and pure. It shall be produced from fair average quality crude mid-oleic sunflower seed oil from which essentially all of the free fatty acids and non-oil substances have been removed by chemical treatments and by mechanical or physical separation.

B. Other Requirements

- (1) Sunflower seed oil shall be fortified with vitamin A (retinol palimate) at the rate of 60-75 IU/g.
- (2) Sunflower seed oil shall be clear and brilliant when held at 70° to 85° F (21.1° to 29.4°C). The oil shall be free from sediment, such as metal, wood, dirt, glass, paint, insects, insect parts, or any other foreign material. The oil shall have a bland odor and flavor and shall be free from beany, rancid, painty, musty, metallic, fishy, putrid, or any other undesirable odor and/or flavor. The oil shall have a light viscosity and shall not have a heavy oily mouth feel. Heavy metal scavengers, antifoaming agents, and antioxidants can be added provided levels of use are in accordance with appropriate Food and Drug Administration regulations.
- (2) The finished sunflower seed oil shall conform to the analytical requirements as specified in the following table. Analyses shall be made in accordance with Methods of the American Oil Chemists' Society (AOCS), for refined, bleached, and deodorized sunflower seed oil.

**MID-OLEIC SUNFLOWER SEED OIL (NUSUN)**

Item	Requirements	
	Minimum	Maximum
Free Fatty Acid (as Oleic)		0.05%
Moisture and Impurities	---	0.10%
Peroxide Value	---	2.0%
Color Lovibond Scale	---	2.5 Red
Iodine Value	88.0	115.0
Oleic	55.0%	75.0%
Saponification (SAP) Value	186	194
Unsaponifiable	---	1.5%
Specific Gravity by 20 Degree Centigrade	0.917	0.924
Flavor shall be pleasing		
Appearances (waxes not separated) shall be cloudy at room temperature		

**Section 1.2 QUALITY ASSURANCE**

- A. The contractor shall perform the product testing and quality analysis to ensure that the product meets the commodity specifications. The results shall be evidenced by a Certificate of Analysis (COA). Copies of the original COA must be submitted as part of the invoice package. The COA shall provide the results of all tests specified. If quality discounts are provided in the contract, and the product to be delivered by the contractor falls within the quality discount table, those factors shall be identified by an asterisk on the copies of the COA.
- B. Contractors shall notify the Government immediately of lots that fail to meet contract requirements.

**Section 1.3 QUALITY DISCOUNTS**

- A. The government will accept product subject to the following schedules of discounts for each 100 pounds (net weight) of product delivered:

<b>Excess Peroxide Value Meg/Kg.</b>	
2.1 thru 2.3	\$ .35
2.4 thru 2.5	\$ .50

<b>Excess Free Fatty Acid, Percent</b>	
.06 or .07	\$0.10
.08 or .09	\$0.20
.10 or .11	\$0.30

- B. No individual container shall weigh less than the under-fill limits shown below. Lots found to have any containers weighing less than the under-fill limit will be rejected.

<b>Pack Size (Liters)</b>	<b>Net Weight</b>		<b>Under-Fill Limit</b>	
	<b>Kilograms</b>	<b>Pounds</b>	<b>Kilograms</b>	<b>Pounds</b>
4	3.7	8.1	3.6	7.9
20	18.5	40.7	18.2	40.1
208	194.5	429.0	193.0	425.0
208 Nitrogen Sparged	193.0	425.0	191.0	420.0

- C. If there is a shortage of more than ½ pound per 208 liter drum between the invoice weight and the weight per drum specified in the contract, the purchase price shall be discounted by the difference between required and actual net weights multiplied by \$0.15.

## **Part 2 CONTAINER AND PACKAGING REQUIREMENTS**

### **Section 2.1 GENERAL**

This part provides the container specifications and packaging materials requirements used under this contract.

### **Section 2.2 CONTAINERS AND MATERIALS**

- A. All containers and packaging shall be constructed to meet the requirements of the Food and Drug Administration (FDA) for safe contact with the packaged product. The contractor shall obtain and maintain documentation from the container or packaging material manufacturer to verify that the containers and packaging materials used in this contract were in compliance with the Government's regulatory requirements for safe contact with food products as required in the Master Solicitation, Part 3, Section A, Number 3.
- B. Questions concerning the containers and materials should be directed to:  
USDA/FSA/DACO  
Room 5755 – South Bldg, STOP 0553  
1400 Independence Avenue, SW  
Washington, DC 20250-0553  
ATTN: Packaging
- C. If the contractor purchases packaging and container ingredients from a foreign country and/or the package and container is manufactured in a foreign country, the package and container SHALL NOT display country of origin labeling. Phrases similar to but not inclusive of, "Made in [Name of Foreign Country.]" or "Product of [Name of Foreign Country.]" are strictly prohibited.

### **Section 2.3 PACK SIZES**

- A. 4-Liter Cylindrical-Style Cans
  - (1) Cylindrical-style steel cans shall be clean, sanitary, and suitable for vegetable oil. The cylindrical-style can shall:
    - (a) **Be sized to accommodate 4 liters of vegetable oil**
  - (2) The steel utilized in the construction of the cylindrical-style can shall:
    - (1) **Meet all FDA guidelines for safe contact with food for human consumption**
    - (2) **Be durable enough to withstand long periods of stacking in warehouse and ocean going vessels without the aid of container shipment**
  - (3) Sunflower seed Oil Can Size  
**All oil in 6/4 liter cylindrical-style cans shall be packaged in only one can size per contract.**

- (4) **Closures**
  - (a) **The closure of cylindrical-style cans after filling may be accomplished in any commercially acceptable manner that assures a sound, leak-proof, tamper-resistant seal capable of withstanding temperature extremes in excess of 150 degrees F without product leakage.**
  - (b) **Full compliance with these performance requirements include, but is not limited to: full documentation of closure procedures, consistent performance of documented procedures, completion and retention of all applicable records for three years after production.**
  
- B. 4-Liter Plastic Containers
  - (1) Plastic containers shall be clean, sanitary, and suitable for vegetable oil.
  - (2) Plastic containers shall be sized to accommodate 4 liters of vegetable oil.
  - (3) Plastic containers shall be securely closed to prevent product tampering, and to protect the product from leaking during long periods of international distribution.
  - (4) Plastic containers shall be light blue in color, as close to PMS 291 as possible.
  - (5) The utilization of plastic containers is limited. Plastic containers shall be specified within the solicitation.
  
- C. 20-Liter Pails
  - (1) **18.5 kilograms (40.7 pounds) of oil shall be packed in clean, sanitary, 2.0 liter round, tight-head pails using the UN1A/Y1.4/250, as a minimum.**
  - (2) The interior of the pails shall be coated with a rust inhibitor which meets FDA guidelines for safe contact with vegetable oil.
  - (3) A collapsible handle shall be fixed to the top of the pail for ease in handling.
  
- D. 208-Liter Drums
  - (1) 194.5 kilograms (429 pounds) of vegetable oil shall be packed in new, sanitary, tight-head steel drums.
  - (2) The interior of the drums shall be coated with a rust inhibitor, which meets FDA guidelines for safe contact with vegetable oil.

## **Section 2.4 SHIPPING CONTAINERS**

- A. Cylindrical Style Cans
  - (1) Shipping containers shall be packed with 6/4 liter cylindrical-style cans.
  - (2) **Shipping container flaps shall be securely closed with suitable adhesive to prevent lifting of free edges or corners of outer flaps during international distribution, stacking and storage.**
- B. Plastic Containers
  - (1) **6/4 liter bottles shall be packed in a corrugated fiberboard shipping container. The shipping container shall conform to Rule 41, as amended, of the Uniform Freight Classification Rules and Regulations, and shall be sized to minimize headspace between the top of the bottles and the closed flaps of the shipping container.**
  - (2) The shipping containers shall be marked to show the maximum safe stacking height. This should be expressed as follows: “Do not stack above \_\_\_ tiers per pallet, \_\_\_ pallets high.” It is the responsibility of the contractor in cooperation with the shipping container and plastic container manufacturer to determine the safe stacking height.
- C. **All shipping containers filled with either cans or bottles must, at a minimum, accommodate 670 cases per 20 foot common intermodal container based on external container measurements of 20 ft (6.1M) long, 8 feet (2.4m) wide, and 8.5 ft (2.6M) high.**

## **Section 2.5 PERFORMANCE SPECIFICATIONS**

- A. Cylindrical Style Cans shall be capable of withstanding the following performance testing. Individual cylindrical-style steel cans shall have a minimum top-to-bottom compression strength load of 1500 pounds. Compression strength shall be determined by ASTM D642-90, “Standard Test Method for Determining Resistance of Shipping Containers, Components and Unit Loads,” using a compression testing machine with a swivel platen, and conducted without contents, closures, or shipping containers.
- B. Plastic Containers shall meet applicable Department of Transportation (DOT) and United Nations (UN) performance standards.

## **Part 3 MARKING REQUIREMENTS**

### **Section 3.1 4-LITER CYLINDRICAL-STYLE CANS**

- A. The 4-liter cans shall be marked in the color as specified in Exhibit A. The natural background of the tin-plated can shall be used. Pressure sensitive or other labels are not acceptable. Any markings not shown in Exhibit A shall be marked

- B. All dimensions are approximate. All printing shall be lithographed in indelible ink directly on the can. Unless otherwise specified all characters shall be in normal block print.
- C. The letters USA shall be in Univers black (75) oblique or Helevetica extra bold with 70% scaling and 70 tracking or equivalent to match the stlyle as shown in enclosed exhibits. The logo shall be 2 inches high and 1 ½ inches in width.
- D. The USAID logo shall be printed in the same style as shown in Exhibit A. The logo shall be 2 inches high and 1-½ inches in width.
- E. “REFINED SUNFLOWER SEED OIL”, “VITAMIN A FORTIFIED”, shall be 7/16 inch print and “NOT TO BE SOLD OR EXCHANGED” shall be 1/4 to 7/16 inch print. When specified in the solicitation insert the words “VITAMIN A FORTIFIED”, under the words “REFINED SUNFLOWER SEED OIL”.
- F. “4 LITERS – 3.7 kg” shall be in 1/4 inch print.
- G. The stripes shall be 7/16 inches high, and shall extend around the pail.
- H. The applicable contract number shall be printed on each can.

**Section 3.2 4-LITER PLASTIC CONTAINERS**

- A. The 4-liter plastic containers shall be marked in the color as specified in Exhibit B. Pressure-sensitive are acceptable. Any markings not shown on the Exhibit B shall be marked in blue or black. When printed on the plastic container, the colors blue and red shall match the PMS chart numbers 280 and 200, respectively, to the extent practicable.
- B. All dimensions are approximate. Unless otherwise specified, all characters shall be in normal block print.
- C. The size of graphics and markings are shown in the exhibit as actual sizes.

**Section 3.3 SHIPPING CONTAINERS FOR ALL 4-LITER CONTAINERS**

- A. The corrugated fiberboard shipping containers shall be marked in the color as specified in the Exhibit C through F. The natural background of the brown corrugated box shall be used. Pressure-sensitive or other labels are not acceptable. Any markings not shown on the exhibits shall be marked in blue or black. When printed on the box, the colors blue and red shall match the PMS chart numbers 280 and 200, respectively, to the extent practicable.
- B. All dimensions are approximate. All printing shall be printed in indelible ink



- C. The letters USA shall be Univers black (75) oblique or Helvetica extra bold with 70% scaling and -70 tracking or equivalent to match the style as shown in the exhibits. The letters USA shall be 3 inches high and 6 inches in total width. The stripes shall be each 5/8 inches high, shall begin ¼ inch from the letters USA and extend to ½ inch from the edge of the box panel.
- D. The USAID logo shall be printed in the same style as shown in the exhibits. The logo shall be 1-⅓ inches high and 1 inch in width.
- E. “REFINED SUNFLOWER SEED OIL”, and “VITAMIN A FORTIFIED”, shall be 5/8 inch print. “NOT TO BE SOLD OR EXCHANGED” shall be 5/16 inch print. “6 CANS OR 4 LITERS EACH, CONTRACT NO., NET WEIGHT: 22.0 kg, GROSS WEIGHT \_\_\_ kg, and CUBIC METERS: \_\_\_”, shall be ¼ inch print. Insert the words “VITAMIN A FORTIFIED”, under the words “REFINED SUNFLOWER SEED OIL”.
- F. “THIS END UP” shall be 3/16 inch print and the arrow shall be ½ inches high.
- G. **If an ‘H’ bliss style box is used, markings shall conform to the requirements of this section as well as the end panels shown in Exhibit J.**

#### **Section 3.4 20-LITER PAILS**

- A. The 20-liter pails shall be marked in the color as specified in Exhibit G. The color of the pail shall be light blue, **as close to PMS 291 or RAL 5024 as possible**. Any markings not shown on the exhibit shall be marked in blue. When printed on the pail, the colors blue and red shall match the PMS chart numbers 280 and 200, respectively, to the extent practicable.
- B. All dimensions are approximate. All printing shall be lithographed in indelible ink directly on the box. Unless otherwise specified, all characters shall be in normal block print.
- C. The letters USA shall be Univers black (75) oblique or Helvetica extra bold with 70% scaling and -70 tracking or equivalent to match the style as shown in the exhibit. The letters USA shall be 3-½ inches high and 7 inches in total width. The stripes shall be each 11/16 inches high, shall begin ½ inch from the letters USA and extend around the pail.
- D. “REFINED SUNFLOWER SEED OIL”, “VITAMIN A FORTIFIED”, and “NOT TO BE SOLD OR EXCHANGED” shall be in ¾ inch print. “20 LITERS, NET WEIGHT: 18.5 kg, GROSS WEIGHT: 20.5 kg, and CUBIC METERS: 0.03027” shall be in 3/8 inch print. Insert the words “VITAMIN A FORTIFIED”, under the words “REFINED SUNFLOWER SEED OIL”.

- E. The contract no. shall be placed on the top of the pail or on the back panel of the pail.

### **Section 3.5 208-LITER DRUMS**

- A. The 208-liter drums shall be marked in the color specified in the Exhibit I. The color of the drum shall be light blue, **as close to PMS 291 or RAL 5024 as possible**. Any marking not shown on the exhibit shall be marked in blue. When printed on the drum, the colors blue and red shall match the PMS chart numbers 280 and 200, respectively, to the extent practicable. All markings shall be legible and of sufficient size to stand out prominently.
- B. All dimensions are approximate and may be adjusted to fit on each panel. All printing shall be in indelible ink. Unless otherwise specified, all characters shall be in normal block print.
- C. The letters USA shall be Univers black (75) oblique or Helvetica extra bold with 70% scaling and -70 tracking or equivalent to match the style as shown in the exhibit. The letters USA shall be 6 inches high and 12 inches in total width. The stripes shall be each 1- $\frac{1}{8}$  inches high, and shall extend around the drum as far as possible.
- D. The USAID logo shall be printed in the same style as shown in the exhibits. The logo shall be 3 inches high and 2- $\frac{1}{8}$  inches in width.
- E. “REFINED SUNFLOWER SEED OIL”, “VITAMIN A FORTIFIED”, shall be in 2 inch print and “NOT TO BE SOLD OR EXCHANGED” shall be in 1- $\frac{1}{2}$  inch print. “CONTRACT NO., NET WEIGHT: 194.5 kg, GROSS WEIGHT: 214 kg, and CUBIC METERS:” shall be in 1 inch print. Insert the words “VITAMIN A FORTIFIED”, under the words “REFINED SUNFLOWER SEED OIL”.

### **Section 3.6 SPECIAL MARKINGS FOR MONETIZATION PROGRAMS**

In order to make all product easily identifiable throughout the production and delivery process, all oil destined for use in export monetization program shall have the following special markings:

- A. 4-liter Cylindrical Style Cans and 20-liter Pails
  - (1) Will be printed with a white band, which shall be printed in the same location as the USA logo and the three red stripes as identified in exhibits.
  - (2) The white band will be a minimum of 2 inches in height on the 4-liter cylindrical style cans and 3 inches in height on the 20-liter pails, and shall extend completely around the container.
  - (3) All other required markings on the 4-liter cylindrical style cans and the 20-liter pails shall be printed in blue.
  - (4) At no time will the white band and the phrase “NOT TO BE SOLD OR EXCHANGED” appear on the same can.
  - (5) All monetized products will be designated as “white band” on all

B. Fiberboard Shipping Container

- (1) A 3-inch solid white band shall be printed on all four side panels of all fiberboard containers used for 4-liter vegetable oil procured for monetization programs. The band shall extend completely around the container to the extent that the box type/style will permit.
- (2) The 3-inch band shall be printed in the same location as the USA logo and the three red stripes as identified in exhibit.
- (3) All other required markings shall be printed in blue.
- (4) At no time will the white band and the phrase, “NOT TO BE SOLD OR EXCHANGED” appear on the same shipping container.

C. Special Marking Requirements (SMRs)

- (1) All 4-liter, cylindrical style cans, corrugated fiberboard cartons, and 20-liter pails used for monetizing programs will be printed with a white band. The new band shall be printed in the same location as the USA logo and the three red stripes as identified in exhibit. The white band will be a minimum of 2 inches in height of the 4-liter cylindrical style cans and corrugated fiberboard cartons, and 3 inches in height on the 20-liter pails, and shall extend completely around the container.
- (2) The only container markings affected by the SMRs are:
  - a. “USA”
  - b. “The red stripes”
  - c. “The USAID logo”
  - d. “NOT TO BE SOLD OR EXCHANGED”

SMR-1 Special Marking Requirement (monetized – white band product)

Omit the letters “USA”, the red stripes, the USAID logo, and the words “NOT TO BE SOLD OR EXCHANGED.” Retain all other markings.

SMR-2 Special Marking Requirement

Omit the USAID logo. Retain all other markings.

SMR-3 Special Marking Requirement (monetized – white band product)

Omit the words “NOT TO BE SOLD OR EXCHANGED” and the red **or blue** stripes. Retain all other markings.

**NOTE: For 208L drums, a white band is not required and all other markings are to be retained in blue.**

SMR-4 Special Marking Requirement (monetized – white band product)

Omit the USAID logo, the words “NOT TO BE SOLD OR EXCHANGED” and the red **or blue** stripes. Retain all other markings.

**NOTE: For 208L drums, a white band is not required and all other markings are to be retained in blue.**

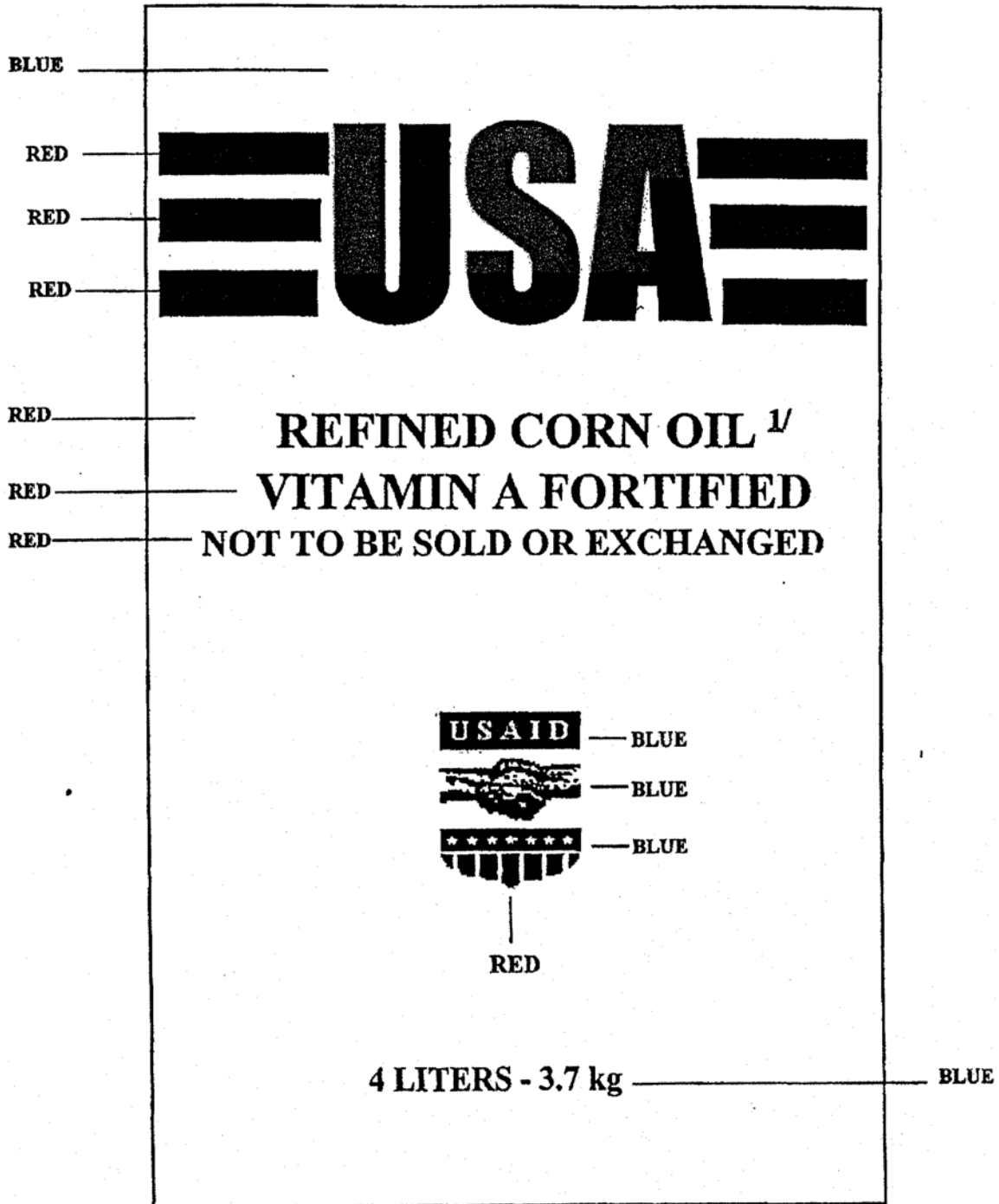
**Note:** All other required markings on the 4-liter cylindrical style cans, corrugated fiberboard cartons and 20-liter pails “white band product” used for monetization programs shall be printed in blue.

### **Section 3.7 LOT CODES**

Lot codes unique to each lot offered for inspection shall be legibly marked on each individual primary container and shipping container. Commodity suppliers may use any type of lot coding system provided a unique code is used to identify each lot offered for inspection under contract. Commodity suppliers shall provide the contracting officer with an explanation of the lot coding system used.

### **Section 3.8 CONTAINERS WITH INCORRECT MARKINGS**

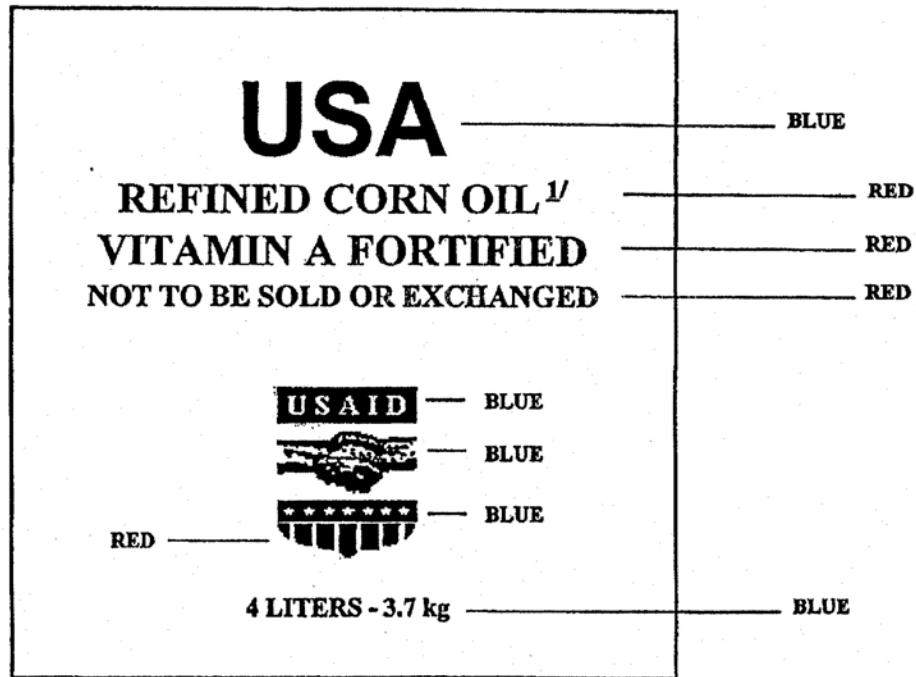
- A. Any labels, bags, cans, can lids, cases, or any other type of packaging (hereinafter referred to as "containers") displaying incorrect markings may be used under a Government contract provided that the incorrect markings are obliterated and correct markings are applied in a permanent manner with approval of the contracting officer.
  
- B. The appearance of containers in commercial or other channels either filled or unfilled bearing markings identifying the containers as part of a Government contract may cause the Government expense in determining whether commodities have been diverted from authorized use and in answering inquiries. The contractor shall take all necessary action to prevent the appearance in commercial or other channels of containers and container materials bearing any markings required under a Government contract, including those held by the contractor or others; e.g., overruns, misprints, etc. The contractor shall ensure that any container from a Government contract that appears in commercial or other channels shall have all markings required under this contract permanently obliterated.




<sup>1/</sup> Insert the words, "Refined Corn Oil", "Refined Vegetable Oil", or "Refined Sunflower Seed Oil" as applicable.


PLASTIC CONTAINER


(GRAPHIC IS ACTUAL SIZE)





<sup>1/</sup> Insert the words, "Refined Corn Oil", "Refined Vegetable Oil", or "Refined Sunflower Seed Oil" as applicable.


BLUE — THIS END UP 


 BLUE — THIS END UP 


RED — 


 BLUE — 


RED — 


 BLUE — 


RED — 

 BLUE — 




RED — 

 BLUE — 

RED — 

 BLUE — 

**USA**  
**REFINED CORN OIL <sup>1/</sup>**  
**VITAMIN A FORTIFIED**

 — BLUE  
 — BLUE  
 — BLUE  
 RED

BLUE — 6 CANS OF 4 LITERS EACH
 
 CONTRACT NO. — BLUE

<sup>1/</sup> Insert the words, "Refined Corn Oil", "Refined Vegetable Oil", or "Refined Sunflower Seed Oil" as applicable.

↑ BLUE — THIS END UP

↑ BLUE — THIS END UP

RED —

RED —

RED —

BLUE —

NET WEIGHT: 22.0 kg

REFINED CORN OIL <sup>1/</sup>

VITAMIN A FORTIFIED

NOT TO BE SOLD OR EXCHANGED

USAID — BLUE

— BLUE

— BLUE

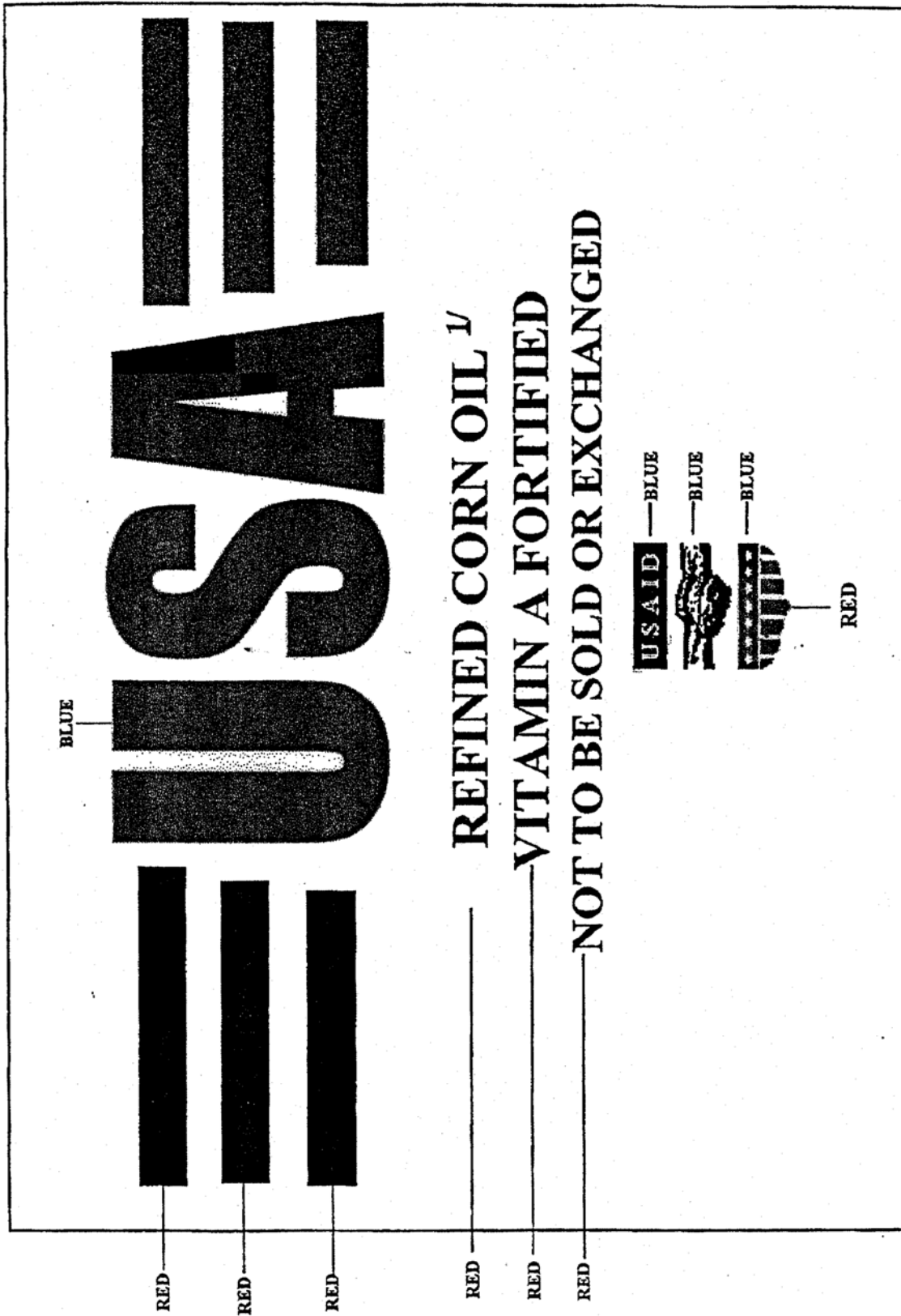
RED

GROSS WEIGHT: — kg — BLUE

<sup>1/</sup> Insert the words, "Refined Corn Oil", "Refined Vegetable Oil", or "Refined Sunflower Seed Oil" as applicable.







1/ Insert the words, "Refined Corn Oil", "Refined Vegetable Oil", or "Refined Sunflower Seed Oil" as applicable.

BLUE

RED

RED

RED

**EUSA**

RED

RED

**REFINED CORN OIL <sup>1/</sup>  
VITAMIN A FORTIFIED**

**USAID**

— BLUE



— BLUE



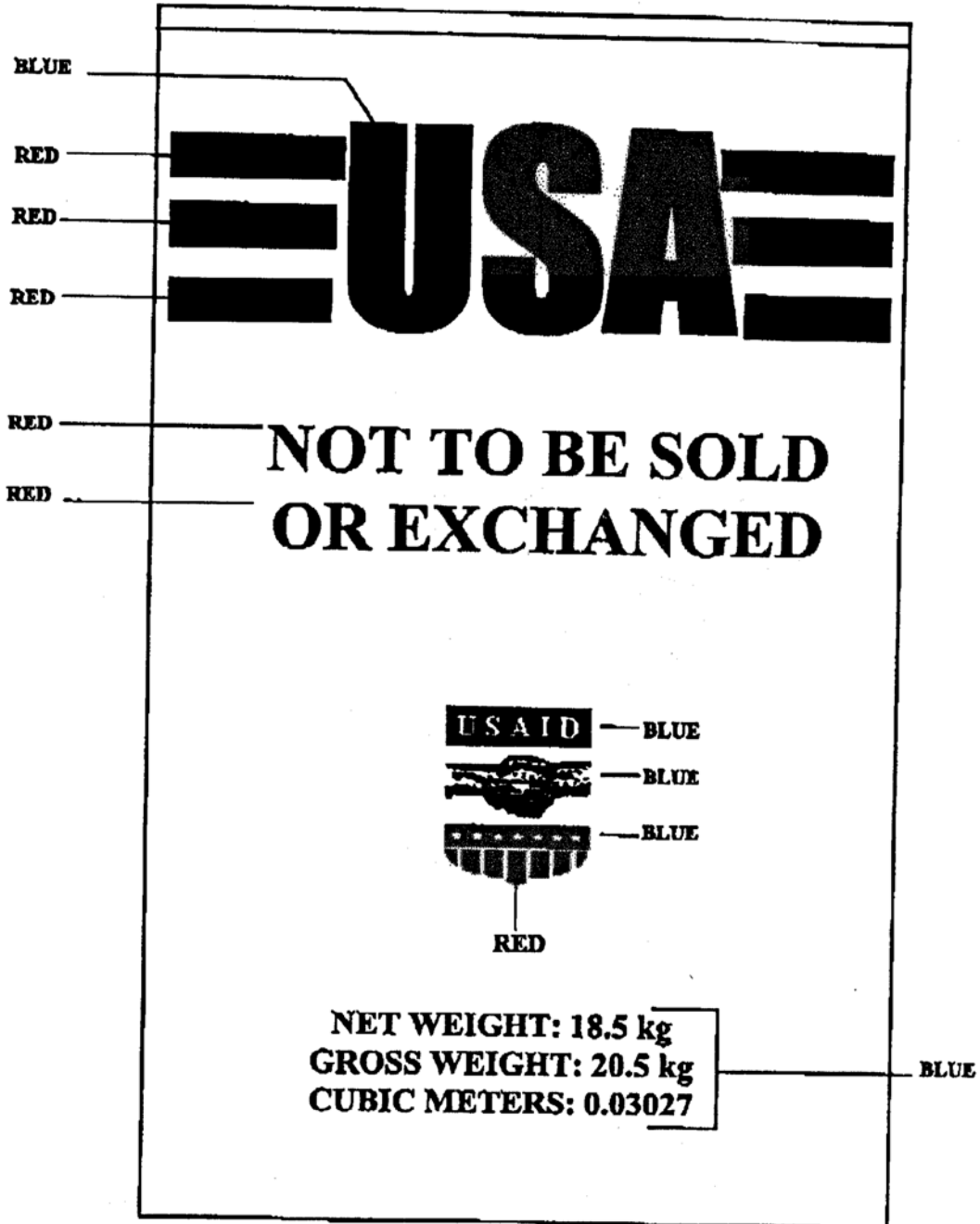
— BLUE

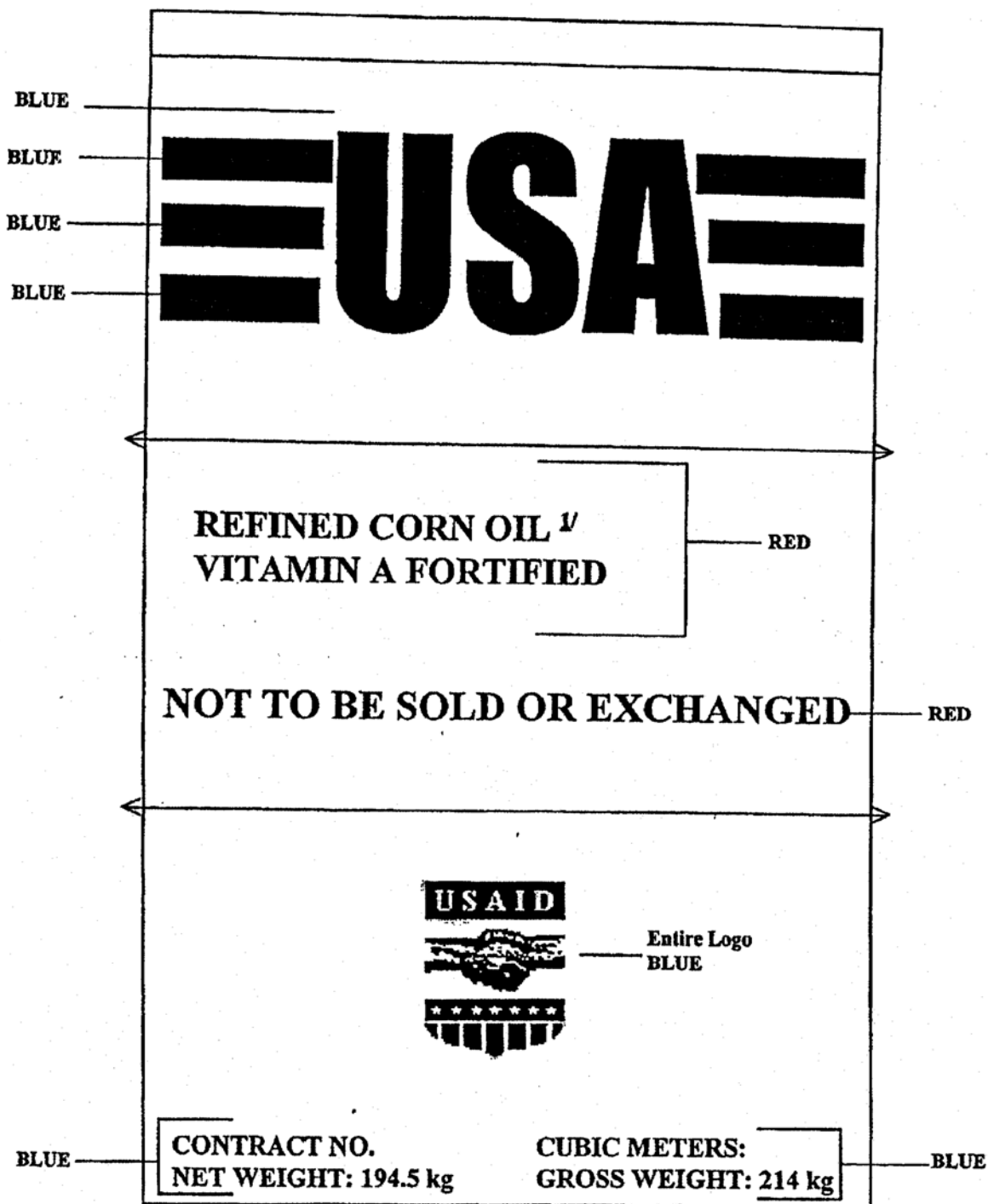
RED

**20 LITERS**

— BLUE

<sup>1/</sup> Insert the words, "Refined Corn Oil", "Refined Vegetable Oil", or "Refined Sunflower Seed Oil" as applicable.





1/ Insert the words, "Refined Corn Oil", "Refined Vegetable Oil", or "Refined Sunflower Seed Oil" as applicable.

