

Produ	ct Specificati	on - Refined Deodo	rized Sunflower Oil	in Bulk	
Oil Name and Brand :	Refined Deodo	orized Sunflower Oil "Fi	rst Grade" (in bulk)		
Method of Production :	Produced by pressing and extraction of sunflower's seeds followed by removal of non-fatty impurities and related substances in the complete cycle of refinery stages. Sunflower seeds are the fruits of the Helianthus annuus oilseed crop.				
Manufacturer :	LLC «Maslenytsa»				
Type of Packing for	rail and road tank cars, flexitanks				
Transportation :	plastic barrels				
Manufacturing Location Address :	Russia, 396340, Voronezh region, Kashirsky MD, Kolodezyanskoye,oil extraction plant Industrial area, (LLC «Maslenytsa» Branch in Kolodezny)				
Legal address :	10th floor, prem	nise XX, room 13.	), Internal-city Area, Kozl	nevnicheskaya St., Bldg. 5,	
Composition (ingredient content )	ngredients in the decreasing order of		% acc.to recipe	Country / Place of origin	
Refined Deodorized Sun	flower Oil		100	Russia	
General Requirement and Russian Regulatory Documents :	2) CU TR 021/2 3) CU TR 024/2	2013 Sunflower Oil. Spec 2011 Technical Regulation 2011 Technical Regulation 2011 On Labeling of Food	n on the Safety of Foodst n on Fat-Oil Products.	tuffs.	
		Organoleptic Charact	eristics		
Consistency	Liquid.				
	<u> </u>				
Transparency	Transparent, no				
Transparency Taste and Odor	<u> </u>				
•	Transparent, no	pecific taste.	aracteristics		
•	Transparent, no	pecific taste.	aracteristics  Limit values at the end of expiration	Method	
Characteristics  Acid Value, not more	Transparent, no No odor, non-sp	ysical and Chemical Chemical Chemical values at the moment of	Limit values at the	Method GOST 31933	
Taste and Odor  Characteristics	Transparent, no No odor, non-sp	ysical and Chemical Cha Typical values at the moment of production	Limit values at the end of expiration		
Characteristics  Acid Value, not more  Moisture and volatiles weight content, not more  Non-fatty impurities weight content, not	Transparent, no No odor, non-sp  Phy  UOM  mg KOH/g	ysical and Chemical Chemical Chemical values at the moment of production  0.16	Limit values at the end of expiration	GOST 31933	
Characteristics  Characteristics  Acid Value, not more  Moisture and volatiles weight content, not more  Non-fatty impurities	Transparent, no No odor, non-sp  Phy  UOM  mg KOH/g	ysical and Chemical Chamber Typical values at the moment of production  0.16  0.01	Limit values at the end of expiration  0.4  0.1	GOST 31933 GOST 11812	
Characteristics  Acid Value, not more  Moisture and volatiles weight content, not more  Non-fatty impurities weight content, not more  Phosphorated substances weight	Transparent, no No odor, non-sp  Phy  UOM  mg KOH/g  %  %  Qualitative	ysical and Chemical Chemical Chemical and Chemical Chemic	Limit values at the end of expiration  0.4  0.1  absent	GOST 31933 GOST 11812 GOST 5481	
Characteristics  Acid Value, not more  Moisture and volatiles weight content, not more  Non-fatty impurities weight content, not more  Phosphorated substances weight content, not more	Transparent, no No odor, non-sp  Phy  UOM  mg KOH/g  %  Qualitative test mmol 1/2	ysical and Chemical Characteristics Typical values at the moment of production  0.16  0.01  absent	Limit values at the end of expiration  0.4  0.1  absent  absent	GOST 31933 GOST 11812 GOST 5481 GOST 31753	
Characteristics  Acid Value, not more  Moisture and volatiles weight content, not more  Non-fatty impurities weight content, not more  Phosphorated substances weight content, not more  Soap  Peroxide value, not	Transparent, no No odor, non-sp  Phy  UOM  mg KOH/g  %  Cualitative test	ysical and Chemical Characteristics Typical values at the moment of production  0.16  0.01  absent  absent	Limit values at the end of expiration  0.4  0.1  absent  absent	GOST 31933 GOST 11812 GOST 5481 GOST 31753 GOST 5480	



Saturated fatty acids weight content (average)	%	12.0	
Monounsaturated fatty acids weight content (average)	%	24.0	GOST 30418, GOST 31663
Polyunsaturated fatty acids weight content (average)	%	63.0	
Trans isomers fatty acids weight content, not more	%	1.0	
		Fatty Acid Composition	
C 14:0	%	up to 0.2	
C 16:0	%	5.0-7.6	
C 16:1	%	up to 0,3	
C 18:0	%	2,7-6,5	
C 18:1 cis	%	14.0-39.4	
C 18:2 cis	%	48.3-77.0	GOST 30418, GOST
C 18:3 cis	%	up to 0.3	31663
C 20:0	%	up to 0.5	
C 20:1	%	up to 0.3	
C 22:0	%	0.3-1.5	
C 22:1	%	up to 0.2	
C 24:0	%	up to 0.5	
		Microbiological Points	

not regulated under CU TR 021/2011, CU TR 024/2011

Safety Data			
Contaminant	иом	Limits	Method
Benz(a)pyrene	μg/kg	not more than 2	ΓΟCT 32123
Dioxins	ng/kg	not more than 0.75	MP-02200-NL EN 16215 equivalent to NEN EN 16215 (Dr.A.Verwey)
Copper (Cu)	mg/kg	not more than 0.1	GOST 30178
Iron (Fe)	mg/kg	not more than 1.5	GOST 30178
Lead ( Pb)	mg/kg	not more than 0.1	GOST 30178
Cadmium ( Cd)	mg/kg	not more than 0.05	GOST 30178
Mercury (Hg)	mg/kg	not more than 0.03	GOST R 54639, GOST 34427
Arsenic (As)	mg/kg	not more than 0.1	GOST 26930
Sum of HCH and isomers	mg/kg	not more than 0.05	GOST 32122
DDT and metabolites	mg/kg	not more than 0.1	GOST 32122
Cesium - 137	Bq/kg	not more than 40	MUK 2.6.1.1194-03



Strontium - 90	Bq/kg not more than 80	MUK 2.6.1.1194-03	
GMO:	The product does not contain GMO and not subject to GMO labeli 022/2011	ng according to CU TR	
Allergens (CU TR 022/	/2011 ):	Y/N	
Peanuts and peanut pro	ducts	N	
Aspartame and aspartar	me acesulfame salt	N	
Mustard and its derivative	/es	N	
Sulfur dioxide and sulfite	es (> 10 mg /kg)	N	
Cereals with gluten and their hybridized strains)	products thereof (wheat, rye, barley, oats, spelt wheat, kamut or	N	
Sesame and derivatives	;	N	
Lupine and its derivative	es	N	
Shellfish and derivatives	3	N	
Milk and dairy products	(including lactose)	N	
Nuts and products there and macadamia)	eof (walnuts, brazil nuts, cashew, pecan, pistachio, almond, cedar	N	
Crustaceans and produc	cts thereof	N	
Fish and fish products		N	
Celery and products the	reof	N	
Soya and products there	eof	N	
Eggs and products there	eof	N	
	The quality certificate for products in bulk in rail and road to contains the following information:	ank cars or flexi tanks	
	1) product name		
	2) manufacturer's name, address and place of manufacture		
	3) net weight		
	4) date of oil production, date of filling and best before date		
	5) designation of the regulatory document in accordance with whice manufactured	th the products are	
	6) physical and chemical test results		
	7) information about certification/confirmation of compliance		
Labeling of Products*	8) conformity mark		
	9) requirements during transportation and storage conditions		
	Barrels are labeled with the following information:		
	1) product name		
	2) manufacturer's name, address and place of manufacture		
	3) volume and net weight		
	4) batch, date of production / date of filling and best before date		
	4) batch, date of production / date of filling and best before date		
	<ul><li>4) batch, date of production / date of filling and best before date</li><li>5) designation of the regulatory document in accordance with which manufactured</li></ul>	th the products are	



	7) package labeling and conformity mark
	Pallets with barrels are labeled with the following information:
	1) product name
	2) manufacturer's name, address and place of manufacture
	3) net weight, number of cargo items on a tray
	4) batch, date of production / date of filling and best before date
* - The information on the lab certificate	pel of the products sold to the customer in bulk in rail and road tank cars or flexi tanks shall be specified in the quality
	List of Accompanying Documents
1) quality certificate	
	Transportation and Storage
Requirements to packaging for tranportation :	Rail and road tank cars, flexi tanks shall meet the requirements for the transportation of food products. The inside surfaces of the tanks used specially for the transportation of fat and oil products shall be cleaned off residues of previous cargoes, steamed and dried. It is allowed to "loop" rail and road tankers for several journeys if the same type of product refined deodorised sunflower oil - is transported.  The rail and road tank cars shall be equipped with bottom discharge and tightly closed hatches. The rail tanks shall have inscriptions in accordance with the rules of carriage of goods effective for the corresponding type of transport.
	For filling oil, new plastic barrels certified for the contact with vegetable oils shall be used. The surface of the barrels shall be clean, smooth, with no blisters, through holes, cracks, chipping. The barrels shall be grouped into pallets on trays.
Requirements to transportation :	Sunflower oil shall be transported in accordance with CU TR 024/2011 and CU TR 021/2011.  During transportation of the product, measures preventing any kind of contamination and spoilage of the product shall be taken.
Requirements to storage :	It is recommended to keep sunflower oil (in bulk) in covered reservoirs in presence of inert gas (nitrogen) at ambient temperature, but not higher than 25 °C.
	Plastic barrels with sunflower oil shall be stored in clean, dry premises, with no off odors, not exposed to direct sunlight, at temperature not exceeding the room temperature, but not higher than 25 °C.
Best Before date :	9 months
Batch identification :	For bulk product in rail and road tank cars, flexitanks: date of oil production, tank number
	For bulk product in plastic barrels : date of oil production, production order number, process line number, tank number
Designation :	For direct consumption and for food production.
The product is not applicable:	For baby food.