## MANUFACTURING MILK LAW OF 2001 (EXCERPT) Act 267 of 2001

\*\*\*\*\* 288.630.amended THIS AMENDED SECTION IS EFFECTIVE JUNE 27, 2008 \*\*\*\*\*

## 288.630.amended Prohibited acts; standards; compliance.

Sec. 70. (1) A person shall not directly, through an agent, or on behalf of another person sell or offer for sale, furnish, or possess or control with intent to sell or offer for sale, or furnish an unsanitary, adulterated, or misbranded milk or dairy product to a person or a processor.

(2) Dairy products made or sold in Michigan shall comply with the requirements of this act and the standards as follows:

Chemical, Physical, Bacteriological, and Temperature Standards

Temperature

**Bacterial** 

limits

Somatic cell

MANUFACTURING GRADE RAW MILK FOR PASTEURIZATION (NOT FOR FROZEN **DESSERTS) INCLUDING** ULTRAFILTRATION OR REVERSE OSMOSIS RAW MILK CONCENTRATE

Bulk milk cooled to 45°F  $(7^{\circ}C)$  or less within 2 hours after milking and maintained thereat. Provided that the blend temperature after the first and subsequent milkings does not exceed 50°F (10°C). Can milk not to exceed 60°F (16°C) if used for cheese making; if delivered to the plant within 2 hours of milking, no temperature limit. Not to exceed 500,000 per ml (milk for cheese not to exceed 750,000 per ml). Not to exceed 1,000,000 per ml as commingled milk prior to pasteurization.

Not to exceed 1,000,000 per ml. count

No positive results on Drug residues

> drug residue detection methods which have been found to be acceptable for use with raw milk. Not to exceed a USDA no.

Sediment 3 standard following procedures from standard

methods for the

examination of milk and

milk products.

Freezing point Temperature

-0.530°H maximum. Bulk milk cooled to 45°F

 $(7^{\circ}C)$  or less within 2 hours after milking and maintained thereat. Provided, that the blend temperature after the first and subsequent milkings does not exceed

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**DESSERTS** 

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RAW MILK FOR FROZEN

50°F (10°C).

Bacterial Not to exceed 100,000 limits per ml for individual

supplies, not to exceed 300,000 per ml

commingled.

Somatic cell Not to exceed 750,000

counts per ml.

Drug residues No positive results on

drug residue detection methods which have been found to be acceptable for use with raw milk.

Sediment Not to exceed a USDA

no. 3 standard following procedures from standard

methods for the

examination of milk and

milk products.

Freezing point Temperature -0.530°H maximum. Cooled to 45°F (7°C)

[50°F (10°C) if 45% or more solids] or less, or heated to 145° (63°C)

or greater and maintained thereat unless the product is being dried within 4 hours after condensing.

Bacterial Not to exceed 30,000

limits per gram.

Coliform count Not to exceed 10 per

gram. Provided, that in the case of bulk milk transport tank shipments shall not exceed 100 per

ml.

Drug residues No positive results on

drug residue detection methods which have been found to be acceptable for use with condensed milk and condensed skim

milk.

DRY WHOLE MILK, EXTRA GRADE

PASTEURIZED CONDENSED

MILK AND CONDENSED

SKIM MILK

No more than:

Butterfat Not less than 26% or

more than 40%.

Moisture 4.50%.

Solubility 1.0 ml spray process; index 15.0 roller process. Bacterial limit Not to exceed 50,000

per gram.

Coliform count Not to exceed 10 per

ram.

Scorched 15.0/gram spray process; particles 22.5 roller process.

disc B

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Drug residues No positive results on

drug residue detection methods which have been found to be acceptable for use with dry whole

milk.

DMCC count Less than 100,000,000

per gram.

DRY WHOLE MILK, STANDARD **GRADE** 

No more than:

Butterfat Not less than 26% or

more than 40%.

Moisture 5.00%. Titratable 0.15%.

acidity

Solubility 1.5 ml spray process; index 15.0 ml roller process. Bacterial limit Not to exceed 100,000

per gram.

Coliform count Not to exceed 10 per

gram.

Scorched 22.5 per gram spray particles process; 32.5 per gram disc B roller process.

Drug residues No positive results on

drug residue detection methods which have been found to be acceptable for use with dry, whole

milk.

DMCC count Less than 100,000,000

per gram.

NONFAT DRY MILK, EXTRA **GRADE** 

No more than:

Butterfat 1.25%. Moisture 4.00%. Titratable 0.15%.

acidity

Solubility 1.2 ml (2.0 ml highindex heat, max) spray process;

15.0 ml roller process.

Bacterial limit Not to exceed 10,000 per

gram spray or 50,000 per gram roller process.

Coliform count Not to exceed 10 per

gram.

15.0/gram spray; Scorched particles 22.5/gram roller

disc B process.

Drug residues No positive results on

drug residue detection methods which have been found to be acceptable for use with nonfat dry

milk.

DMCC count Less than 100,000,000

per gram.

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STANDARD GRADE No more than:

Butterfat 1.50%. Moisture 5.00%. Titratable 0.17%.

acidity

Solubility 2.5 ml spray process; index 15.0 ml roller process. Bacterial 75,000/gram spray; estimate 100,000/gram roller

process.

Coliform count
Scorched
particles
Scorched
Scorched
particles
Scorched
particles
Scorched
22.5/gram spray;
32.5/gram roller

disc B process.

Drug residues No positive results on

drug residue detection methods which have been found to be acceptable for use with nonfat dry

milk.

DMCC count Less than 100,000,000

per gram.

INSTANT NONFAT DRY MILK, EXTRA GRADE

No more than:

Butterfat 1.25%. Moisture 4.50%. Titratable 0.15%.

acidity

Solubility 1.0 ml.

index

Bacterial limit Not to exceed 10,000 per

gram.

Coliform count Not to exceed 10 per

gram.

Scorched 15.0/gram.

particles disc B

Drug residues No positive results on

drug residue detection methods which have been found to be acceptable for use with nonfat dry

milk.

Dispersibility 85.0%.

DMCC count Less than 40,000,000

per gram.

WHEY FOR CONDENSING

Temperature

Maintained at a

temperature of 45°F (7°C)

or less, or

135°F (57°C) or greater, except for acid-type whey with a titratable acidity 0.40% or above, or a pH of 4.6

or below.

Drug residues No positive results on

drug residue detection methods which have been

methods which have be

found to be acceptable for use with whey. PASTEURIZED CONDENSED Temperature Cooled to WHEY AND WHEY PRODUCTS 50°F (10°C) or less during crystallization, within 72 hours of condensing. Coliform count Not to exceed 10 per gram. Drug residues No positive results on drug residue detection methods which have been found to be acceptable for use with condensed whey. DRY WHEY, EXTRA GRADE Bacterial Not to exceed 30,000 per limit gram. Coliform Not to exceed 10 per count gram. Milkfat Not to exceed 1.5%. content Moisture Not to exceed 5.0%. content Scorched Not to exceed 15.0%. particle content DRY WHEY, DRY WHEY Bacterial Not to exceed 50,000 per **PRODUCTS** limit gram. Not to exceed 10 per Coliform count gram. Butterfat Not more than 1.50%. Moisture Not more than 5%. Drug No positive results on residues drug residue detection methods which have been found to be acceptable for use with dry whey and dry whey products. DRY BUTTERMILK AND DRY Butterfat 4.5% min. BUTTERMILK PRODUCTS, **EXTRA GRADE** Moisture 4.0% max. 0.10-0.18%. Titratable acidity Solubility 1.25 ml spray process; index 15.0 roller process. **Bacterial** Not to exceed 20,000 per limit gram. Coliform Not to exceed 10 per count gram. 15.0 mg spray process; Scorched

> disc B Drug

particles

No positive results on residues drug residue detection methods which have been found to be acceptable for use with dry

buttermilk and dry

22.5 mg roller process.

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DRY BUTTERMILK AND DRY BUTTERMILK PRODUCTS,	Butterfat	buttermilk products. 4.5% min.
STANDARD GRADE	36.1	5.00/
	Moisture Titratable acidity	5.0% max. 0.10-0.20%.
	Solubility index	2.0 ml spray process; 15.0 roller process.
	Bacterial limit	Not to exceed 75,000 per gram.
	Coliform	Not to exceed 10 per
	count Scorched	gram. 22.5 mg spray process;
	particles disc B	32.5 mg roller process.
	Drug residues	No positive results on drug residue detection methods which have been found to be acceptable for use with dry buttermilk and dry buttermilk products.
BUTTER, WHIPPED BUTTER	Percent	Not less than 80%.
	butterfat Temperature	Maintained at a
	Temperature	temperature of 45°F (7°C) or less, when in storage.
	Proteolytic	Not more than 50 per
	count Yeast and mold	gram. Not more than 10 per
	Coliform	gram. Not more than 10 per
	count	gram.
	Keeping	Satisfactory after 7 days at 70°F (21°C).
PASTEURIZED MILK,	quality Bacterial	Not to exceed 20,000
CREAM, FLUID DAIRY PRODUCTS FOR FROZEN	limit	per ml.
DESSERTS	Coliform	Not to exceed 10 per
	count	gram. Provided, that in the case of bulk milk
		transport tank shipments shall not exceed 100
	Storage temp	per ml. No higher than 45°F (7°C).
FROZEN DESSERT MIX	Bacterial limit	30,000 per ml.
	Coliform	Not to exceed 10 per
	count	gram. Provided, that in the case of bulk milk
		transport tank shipments shall not exceed 100
	Storage temp	per ml. No higher than 45°F (7°C). (Sterile or
Rendered Thursday, June 19, 2008	Page 6 Michigan Con	aseptic mix has no npiled Laws Complete Through PA 162 or
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storage temperature

requirement.)

FROZEN DESSERTS Bacterial 30,000 per ml.

limit

Coliform Not to exceed 10 per ml (20 per gram for count

chocolate, fruit, nuts, or other bulky flavored

frozen desserts).

No higher than 32°F Storage temp

 $(0^{\circ}C)$ .

Butterfat Per standards listed in

21 C.F.R. 135.

STERILIZED OR ASEPTIC Bacterial Refer

**PRODUCTS** 

RECIRCULATED COOLING

WATER (SWEET WATER); GLYCOL FOR COOLING

WATER (COW WATER)

limit to 21 CFR 113.3(e)(1).

Temperature

None.

Yeast and No viable yeast or mold

mold spores.

No positive results on Drug residues drug residue detection methods which have been found to be acceptable

for use with

aseptically processed milk and milk products.

PRIVATE WATER SUPPLIES Coliform Less than 1.1 per 100 ml FOR DAIRY FARMS AND count as MPN or equivalent DAIRY PLANTS;

method less than 1 per

100 ml.

CONDENSATE RECOVERY Total plate Not to exceed 500 per ml.

count

Chemical Not to exceed 12 mg per

oxygen demand L.

Turbidity Not to exceed 5 units.

History: 2001, Act 267, Eff. Feb. 8, 2002;—Am. 2008, Act 147, Eff. June 27, 2008.

Compiler's note: In the section of the table entitled "PASTEURIZED CONDENSED MILK AND CONDENSED SKIM MILK", the first instance of "145°" evidently should read "145°F".