

FLEXITECH SDN. BHD.
MATERIAL SAFETY DATA SHEET

Nitrile Medical Examination Gloves

MSDS Number : NBR02
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Supersedes : NBR01

Section 1 : Manufacturer Identification

<u>Name & Address</u>	<u>Emergency Telephone No.</u>	<u>Telephone No. for Information</u>
Flexitech Sdn. Bhd. Lot 5071, Batu 5 ½, Jalan Meru 41050 Klang, Selangor Darul Ehsan Malaysia	603-3392 0188	603-3392 0188
Flexitech Sdn. Bhd. Lot 124 & 126, Jalan Lapan, Kompleks Olak Iempit, 42700 Banting, Selangor Darul Ehsan, Malaysia	603-3149 1988	603-3149 3008

Section 2 : Primary Material and Ingredients Information

Primary Material

Gloves are made from synthetic-nitrile latex (Copolymer of Acrylonitrile / Butadiene / Methacrylic Acid)

<u>Other Ingredients</u>	<u>CAS No.</u>	<u>Content (%)</u>
Nitrile Latex	9010-81-5	95.37
Zinc Oxide	1314-13-2	1.43
Sulphur	7704-34-9	0.48
Titanium Dioxide (White Pigment)	13463-67-7	1.91
Zinc Dibutyl Dithiocarbamate	136-23-2	0.24
Sodium Napthalene Sulfonate Formaldehyde Condensate	532-20-5	0.05
Potassium Hydroxide	1310-58-3	0.05
Defoamer	N/A	0.01
Pigment	147-14-8	0.48

All the above chemicals used are non toxic or non hazardous.

Section 3 : Gloves Physical Data

Dimension

Size	X-Small	Small	Medium	Large	X-Large	XX-Large
Palm Width (mm)	70-79	80-89	90-99	100-109	110-119	120-129
Length (mm)	240 / 300					

Single Wall Thickness

Finger (at 13 ± 3 mm from finger tip), (± 0.02 mm)	0.14
Palm (at center of palm), (± 0.02 mm)	0.12
Cuff (at 25 ± 5 mm from cuff edge), (± 0.02 mm)	0.10

Physical Properties

	<u>Before Aged</u>	<u>After Aged</u>
Tensile Strength (Mpa)	15	14
Elongation (%)	500	450

Remark : 10% lower for textured surface gloves

Palm Surface	Smooth / Textured
Orientation	Ambidextrous
Cuff	Rounded Bead
Sterility	Non Sterile

Packaging	100 pieces / box; 10 boxes / carton
Quality	ASTM D6319-00, FDA 510K Registered

Quality Level Control

	<u>Related Defects</u>	<u>Inspection Level</u>	<u>AQL</u>
Air Test	Holes	100% Inspection	1.5
Water Tight Test	Holes	G-1, Single Sampling	1.5
Dimension	Width, Length, Thickness	S-2, Single Sampling	4.0
Visual	Pleats, Dirt, Discolouration	S-4, Single Sampling	2.5

Section 4 : Hazards Identification

Similar type of powder-free examination gloves have been tested for following study and no irritation was observed :

Skin irritation study in rabbit

Sensitisation study in guinea pig

Cytotoxicity test (using ISO agarose overlay method in the L-929 mouse fibroblast cell line)

Gloves Usage Recommendation

Wear gloves that fit well and trim fingernails for effective use.

Gloves are for single use only. Do not reuse gloves.

Change gloves frequently, wash and dry hands thoroughly in between changes.

Apply any suitable non-greasy hand lotion periodically.

User is responsible for determining the proper application of the gloves in any given procedure or practice.

If new user experience any discomfort, please discontinue use and consult with a physician.

Section 5 : Storage and Disposal Consideration

Storage

Store gloves in original packing in a cool, dry and well-ventilated area, away from dust, direct sunlight, moisture, X-Ray and excessive heat above 100°F (37°C). Improper storage may reduce shelf life.

Final Disposal

Dispose the used gloves according to the local regulation.

Main ingredient is polymer that is not biodegradable.

Poisonous gas (HCN) may be generated depending on burning condition. Therefore, if the used gloves are disposed of by burning, such as in an incinerator, it must burn at a temperature higher than 850°C.