



MATERIAL SAFETY DATA SHEET

Product Type : Nitrile Examination Gloves (*Standard Type 11*)

MSDS Number: NBR - 15

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Revision : 0

Section 1: Manufacturer Identification.

Name & Address

HL Rubber Industries Sdn Bhd
Lot 10, Kawasan Perindustrian Dioh
72000 Kuala Pilah
Negeri Sembilan,
Malaysia

Telephone No. for Information

606 – 481 – 1087

606 – 481 – 1088

Section 2: Primary Material and Ingredients Information

Primary Material

Gloves are made from synthetic – nitrile latex (copolymer of Acrylonitrile / Butadiene / Methacrylic Acid)

Other Ingredients

Nitrile Latex
Zinc Oxide
Sulphur
Titanium Dioxide (White Pigment) as required
Potassium Hydroxide
Defoamer
Color Pigment as required

All the above chemicals used are non-toxic of non hazardous.

Section 3: Gloves Physical Data

WEIGHT

Size	Weight (gm)	Range (gm)
XS	5.2 ± 0.2	5.0 – 5.4
S	5.7 ± 0.2	5.5 – 5.9
M	6.2 ± 0.2	6.0 – 6.4
L	6.8 ± 0.2	6.6 – 7.0
XL	7.5 ± 0.2	7.3 – 7.7

DIMENSION

Size	X-small	Small	Medium	Large	X-large
Palm Width (mm)	75 $\pm$ 5	85 $\pm$ 5	95 $\pm$ 5	105 $\pm$ 5	115 $\pm$ 5
Length (mm) min	240				

SINGLE WALL THICKNESS

Finger (at 13 $\pm$ 3 mm from finger tip), ($\pm$ 0.02mm)	Min 0.10 mm
Palm (at center of palm), ($\pm$ 0.02 mm)	Min 0.09 mm
Cuff (at 25 $\pm$ 5 mm from cuff edge), ($\pm$ 0.02 mm)	Min 0.07 mm

QUALITY CONTROL LEVEL

Item	Related Defects	Inspection Level	AQL
Air Test	Holes	G-1, Single Sampling	1.5
Water Tight	Holes	G-1, Single Sampling	2.5
Dimension	Width, Length, Thickness	S-2, Single Sampling	4.0
Visual	Pleats, Dirt, Discoloration	G-1, Single Sampling	2.5

Section 4: Hazards Identification

The similar/equal type of examination gloves has been tested for following study and no irritation was observed.

Skin irritation study in the rabbit

Sensitization study in the guinea pig

Cytotoxicity test using the 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 re-use gloves.

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

Apply a suitable method for determining the proper application of the gloves in any given procedure of practice.

If new user experiences 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 100F(37°C). Improper storage may reduce shelf life.

Shelf life is estimated to be a minimum of 3 years and a maximum of 5 years.

Final Disposal

Dispose the used gloves according to the local regulation

The main ingredient not biodegradable is the polymer material.

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

Section 6: Special protection information

In accordance to EN 374-3: 2003 Permeation by Chemicals

Methanol : level 2

NaOH 40% : level 6

H2SO4 96% : level 2