

# भारतीय पैकेजिंग संस्थान INDIAN INSTITUTE OF PACKAGING



E-2, MIDC AREA, POST BOX NO. 9432, ANDHERI (EAST), MUMBAI - 400 093.  
Phones : 2821 9803 / 9469 / 6751, 2832 9623, 2839 1506, 2825 4631  
Fax : 91-22-2837 5302, 2832 8178  
E-mail : labiip@iip-in.com / materiallab@iip-in.com / transportlab@iip-in.com  
URL - http://www.iip-in.com

## CERTIFICATE

NO.: 29319

Date: 17/10/2011.

This is to certify that the samples of the packages/packageings as per the following particulars have been tested in accordance with the provisions of the IMDG-CODE, Volume-I for the transportation of the chemicals as specified in the Annexure.

The goods are found to comply with prescribed criteria laid down in the Code. Detail of the shipper / exporter and the Dangerous Goods being Transported by Sea are stated below :

**Name & Address of the Applicant** : M/S. N. B. COMMERCIAL ENTERPRISES  
PVT. LTD.,  
61, G.V.M.M., ODHAV, AHMEDABAD-382 410.

**Name of the Exporter** : M/S. GUJARAT ALKALIES & CHEMICALS LTD.

**Application Reference** : No. - dated 17/9/2011

**Description of the package** : Non-removable head type, L-ring, HMHDPE drum having weight 8.20 kg. (210 litre capacity)

**Date of Manufacture** : 17/9/2011

**Class** : Refer Annexure

**Sub-Class** : Refer Annexure

**Marine Pollutant** : Refer Annexure

**EMS No.** : Refer Annexure

**Quantity of the Sample** : 21 Nos.

**Test Report** : No. IIP/3484 & 3484-A/11/LAB/T-6 dated 17/10/2011

**UN Marking allotted** : 

u	1H1/Z 1.2/100/11
n	IND/95529319

**Specification of UN Marking** : Marking should be legible. It should be either printed or embossed on the package. Handwritten or sticker marking is not permitted. The marking letters or symbols should have at least 6 mm height (upto 30 kg.) or 12 mm height (above 30 kg.).

This certificate is issued on the basis of the declaration given by the manufacturer regarding the product/package compatibility.

This certificate has been issued pursuant to the approval issued by Directorate General of Shipping, Government of India, and is *valid upto* SEPTEMBER 16, 2012.

(SUCHETA B.)  
JT. DIRECTOR  
LABORATORIES DIVISION

Testing laboratories of Mumbai are accredited to NABL, BIS, Directorate General of Shipping and Directorate General of Civil Aviation, Govt. of India for specified tests.

MEMBER



WORLD  
PACKAGING  
ORGANISATION



The Asian Packaging Federation

### IIP CENTERS

Plot 169, Indl. Estate,  
Perungudi,  
CHENNAI -600 096  
Phone : 044-2496 1560 / 0730  
Fax : 044-2496 1077  
iipchennai@iip-in.com

Block C.P., Sector - V,  
Salt Lake, Bidhan Nagar,  
KOLKATA - 700 091.  
Phones : 033-2367 0763 / 6016  
Telefax : 033-2367 9561  
iipkolkata@iip-in.com

Plot No. 21, Functional  
Indl. Estate, Patparganj,  
Opp. Patparganj Bus Depot,  
NEW DELHI - 110 092.  
Phone : 011-2216 6703 / 4 / 5  
Fax : 011-2216 9612  
iipdelhi@iip-in.com

Lux-3, Industrial Estate,  
Sanath Nagar,  
HYDERABAD - 500 018.  
Phone : 040-2381 4321  
Fax : 040-2370 7148  
iiphyd@iip-in.com

# भारतीय पैकेजिंग संस्थान INDIAN INSTITUTE OF PACKAGING



E-2, MIDC AREA, POST BOX NO. 9432, ANDHERI (EAST), MUMBAI - 400 093.

Tel. : 91-22-2821 9803 / 9469 / 6751, 2832 9623, 2839 1506, 2825 4631

Fax : 91-22-2837 5302, 2832 8178

E-mail : iip@iip-in.com ■ URL : http://www.iip-in.com

## A N N E X U R E

**FOR CERTIFICATE SR. NO. 29319 (PKG. GROUP-III CHEMICALS) DT : 17/10/2011**

NAME OF THE CHEMICALS	UN NO.	PACKING INSTRUCTION	CLASS	SUB-CLASS	MARINE POLLUTANT	EMS NO.
ALKYL PHENOL LIQUID, N.O.S. - NONYL PHENOL - DODECYL PHENOL	3145	P001	8	-	YES	F-A, S-B
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - MALATHION E.C. - MALATHION TECHNICAL - CHLORHEXIDINE DIGLUCONATE (GLUCONATE) SOLUTION	3082	P001	9	-	YES	F-A, S-F
ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC - CHLORPYRIPHOS TECHNICAL & E.C. - QUINALPHOS E.C. - TEMEPHOS TECHNICAL & E.C. - PHORATE TECHNICAL - ETHION TECHNICAL & E.C.	3018	P001	6.1	-	YES	F-A, S-A
ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC - CHLORPYRIPHOS TECHNICAL & E.C.	2783	P001	6.1	-	YES	F-A, S-A
TRICHLORO BENZENES, LIQUID - CHLOROBENZENE MIXTURE	2321	P001	6.1	-	YES	F-A, S-A
FLAMMABLE LIQUID, N.O.S. - CETRIMIDE 40% SOLUTION IN ETHANOL	1993	P001	3	-	YES	F-E, S-E
CHLOROHEXIDINE GLUCONET SOLUTION - PHOSPHORIC ACID	1805	P001	8	-	NO	F-A, S-B
METHYLENE CHLORIDE	1593	P001	6.1	-	NO	F-A, S-A
CONSUMER COMMODITY - LIQUID GLUCOSE - SORBITOL	ID NO. 8000	P001	-	-	-	-

...2.

**SUCHETA B.**

**JOINT DIRECTOR**

**LABORATORIES DIVISION**

ing laboratories of Mumbai are accredited to NABL, BIS, Directorate General of Shipping and Directorate General of Civil Aviation, Govt. of India for specified tests.

### IIP CENTERS

MEMBER



WORLD  
PACKAGING  
ORGANISATION



Plot 169, Indl. Estate,  
Perungudi,  
CHENNAI -600 096  
Phone : 044-2496 1560 / 0730  
Fax : 044-2496 1077  
iipche@airtelmail.in

Block C.P., Sector - V,  
Salt Lake, Bidhan Nagar,  
KOLKATA - 700 091.  
Phone : 033-2367 0763 / 6016  
Telefax : 033-2367 9561  
iipkolkata@iip-in.com

Plot No. 21, Functional  
Indl. Estate, Patparganj,  
Opp. Patparganj Bus Depot,  
NEW DELHI - 110 092.  
Phone : 011-2216 6703 / 4 / 5  
Fax : 011-2216 9612  
iipdelhi@iipool.net.in

Lux-3, Industrial Estate,  
Sanath Nagar,  
HYDERABAD - 500 018.  
Phone : 040-2381 4321  
Fax : 040-2370 7148  
iiphyd@yahoo.com

# भारतीय पैकेजिंग संस्थान INDIAN INSTITUTE OF PACKAGING



E-2, MIDC AREA, POST BOX NO. 9432, ANDHERI (EAST), MUMBAI - 400 093.  
Tel. : 91-22-2821 9803 / 9469 / 6751, 2832 9623, 2839 1506, 2825 4631  
Fax : 91-22-2837 5302, 2832 8178  
E-mail : iip@iip-in.com ■ URL : http://www.iip-in.com

: 2 :

**FOR CERTIFICATE SR. NO. 29319 (PKG. GROUP-III CHEMICALS) DT : 17/10/2011**

NAME OF THE CHEMICALS	UN NO.	PACKING INSTRUCTION	CLASS	SUB-CLASS	MARINE POLLUTANT	EMS NO.
HYDROCHLORIC ACID - HCL 32%	1789	P001	8	-	NO	F-A, S-B
HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)	2014	P504	5.1	8	NO	F-H, S-Q
CARBON TETRA CHLORIDE	1846	P001	6.1	-	P	F-A, S-A
KEROSENE (CHLORINATED PARAFFIN WAX)	1223	P001	3	-	NO	F-E, S-E

  
**SUCHETA B.**  
JOINT DIRECTOR  
LABORATORIES DIVISION

laboratories of Mumbai are accredited to NABL, BIS, Directorate General of Shipping and Directorate General of Civil Aviation, Govt. of India for specified tests.

#### IIP CENTERS

Plot 169, Indl. Estate,  
Perungudi,  
CHENNAI -600 096  
Phone : 044-2496 1560 / 0730  
Fax : 044-2496 1077  
iipche@airtelmail.in

Block C.P., Sector - V,  
Salt Lake, Bidhan Nagar,  
KOLKATA - 700 091.  
Phone : 033-2367 0763 / 6016  
Telefax : 033-2367 9561  
iipkolkata@iip-in.com

Plot No. 21, Functional  
Indl. Estate, Patparganj,  
Opp. Patparganj Bus Depot,  
NEW DELHI - 110 092.  
Phone : 011-2216 6703 / 4 / 5  
Fax : 011-2216 9612  
iipdelhi@iip.net.in

Lux-3, Industrial Estate,  
Sanath Nagar,  
HYDERABAD - 500 018.  
Phone : 040-2381 4321  
Fax : 040-2370 7148  
iiphyd@yahoo.com

ER



WORLD  
PACKAGING  
ORGANISATION

**IAPF**  
The Asian Packaging Federation

भारतीय पैकेजिंग संस्थान  
INDIAN INSTITUTE  
OF PACKAGING



E-2, MIDC AREA, POST BOX NO. 9432, ANDHERI (EAST), MUMBAI - 400 093.  
Phones : 2821 9803 / 9469 / 6751, 2832 9623, 2839 1506, 2825 4631  
Fax : 91-22-2837 5302, 2832 8178  
E-mail : labiip@iip-in.com / materiallab@iip-in.com / transportlab@iip-in.com  
URL - http://www.iip-in.com

**LABORATORY TEST REPORT**

Test Report No. : IIP/3484/11/LAB/T-6/

Date : 17<sup>th</sup> October, 2011.

Sample Received from : M/S. N. B. COMMERCIAL ENTERPRISES  
PVT. LTD.,  
61, G.V.M.M., ODHAV,  
AHMEDABAD-382 410.

Ref. No. & Date : Letter dated 17/9/2011

Kind Attention : Mr. Rakesh Shah, Works Manager

Sample Details : One set (21 Nos.) of 210 litre capacity, non-removable head type L-ring HMHDPE, blue colour, drums. The drums were said to be used for packing of the chemicals reflected in the Certificate Sr. No. 29319.

For testing purpose, each drum was filled with water up to 98% of its total capacity. The openings of the drum were closed by plastic screw caps. provided with plastic washers.

Maximum external diameter of the drum at top : 587.0 mm

Maximum external height of the drum : 925.0 mm

(Sampling done by the party, total 21 Nos. of drums were kept at party's premises.)

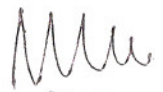
...2.

Tested at: Party's works at ambient temperature.

Tests done as per: IMDG-CODE, VOLUME-I.

TESTED BY NBL

ASST. DIR. / JT. DIRECTOR

  
SUCHETA B.  
JOINT DIRECTOR  
HEAD  
LABORATORIES DIVISION

This report is for Private use only. Not to be used for Publicity or litigation

Testing laboratories of Mumbai are accredited to NABL, BIS, Directorate General of Shipping and Directorate General of Civil Aviation, Govt. of India for specified tests.

IIP CENTERS : CHENNAI Tel : 044 - 2496 1560  
iipche@airtelmail.in

KOLKATA Tel : 033 - 2367 0763 / 6016  
iipcal@cal.vsnl.net.in

NEW DELHI Tel : 011 - 2216 6703  
iipdelhi@bol.net.in

HYDERABAD Tel : 040 - 2381 4321  
iiphyd@yahoo.com



**LABORATORY TEST REPORT**

Test Report No. : IIP/3484/11/LAB/T-6/

Date : 17<sup>th</sup> October, 2011.

Test Results : **TESTS/OBSERVATION DETAILS**

1. **DROP TEST** (Drop Height: 0.80 mtrs.)

1.1 **Test at ambient temperature:**

a) First set of drums were dropped diagonally on top.

**OBSERVATION:** The drums were dented at the dropped point, but no leakage was observed from the drums.

b) Second set of drums were dropped flat on body.

**OBSERVATION:** The drums were dented at the dropped point, but no leakage was observed from the drums.

\* 1.2 **Test at -18° C temperature:** The filled drums were exposed to -18° C for 24 hrs.

a) First set of drums were dropped diagonally on top.

**OBSERVATION:** The drums were dented at the dropped point, but no leakage was observed from the drums.

b) Second set of drums were dropped flat on body.

**OBSERVATION:** The drums were dented at the dropped point, but no leakage was observed from the drums.

2. **LEAKAGE TEST**

The drums were subjected to an air pressure of 0.2 kg/cm<sup>2</sup>.

**OBSERVATION:** No leakage was observed from the closures & seams.

...3.

Tested at: Party's works at ambient temperature.

Test done as per : IMDG-CODE, VOLUME-I.

TESTED BY NB LI ASST./JOINT DIRECTOR

This report is for Private use only. Not to be used for Publicity or litigation

SUCHETA B.  
JOINT DIRECTOR  
HEAD  
LABORATORIES DIVISION

Testing laboratories of Mumbai are accredited to NABL, BIS, Directorate General of Shipping and Directorate General of Civil Aviation, Govt. of India for specified tests.

CONTINUATION SHEET NO : 3

भारतीय पैकेजिंग संस्थान  
INDIAN INSTITUTE  
OF PACKAGING



E-2, MIDC AREA, POST BOX NO. 9432, ANDHERI (EAST), MUMBAI - 400 093.  
Phones : 2821 9803 / 9469 / 6751, 2832 9623, 2839 1506, 2825 4631  
Fax : 91-22-2837 5302, 2832 8178  
E-mail : labiip@iip-in.com / materiallab@iip-in.com / transportlab@iip-in.com  
URL - http://www.iip-in.com

**LABORATORY TEST REPORT**

Test Report No. : IIP/3484/11/LAB/T-6/

Date : 17<sup>th</sup> October, 2011.

Test Results :

**\*3. STACK LOAD TEST:**

A superimposed weight was placed on a flat surface resting on the top of the drum for a period of 28 days. The weight was equivalent to the total weight of the filled identical drums, which could be stacked on it during the transport. (Stacking height:3.0 mtrs)

**OBSERVATION:** Neither deformation nor leakage was observed from the drums.

**4. HYDRUALIC TEST**

Drums were subjected for a period of 30 minutes to a hydraulic gauge pressure of 1.0 kg/cm<sup>2</sup>.

**OBSERVATION :** Neither rupture nor leakage was observed from the drums.

**CONCLUSION : PASSES THE TESTS.**

(Test report, however, does not include the compatibility studies.)


**\* Tests performed at the Institute.**

Tested at: Party's works at ambient temperature.

Tests done as per: IMDG-CODE, VOLUME-I.

TESTED BY NBL ASST./DY. DIRECTOR

This report is for Private use only. Not to be used for Publicity or litigation

  
SUCHETA B.  
JOINT DIRECTOR  
HEAD  
LABORATORIES DIVISION

Testing laboratories of Mumbai are accredited to NABL, BIS, Directorate General of Shipping and Directorate General of Civil Aviation, Govt. of India for specified tests.

**IIP CENTERS :** CHENNAI Tel : 044 - 2496 1560  
iipche@airtelmail.in

KOLKATA Tel : 033 - 2367 0763 / 6016  
iipcal@cal.vsnl.net.in

NEW DELHI Tel : 011 - 2216 6703  
iipdelhi@bol.net.in

HYDERABAD Tel : 040 - 2381 4321  
iiphyd@yahoo.com

भारतीय पैकेजिंग संस्थान  
INDIAN INSTITUTE  
OF PACKAGING



E-2, MIDC AREA, POST BOX NO. 9432, ANDHERI (EAST), MUMBAI - 400 093.  
Phones : 2821 9803 / 9469 / 6751, 2832 9623, 2839 1506, 2825 4631  
Fax : 91-22-2837 5302, 2832 8178  
E-mail : labiip@iip-in.com / materiallab@iip-in.com / transportlab@iip-in.com  
URL - http://www.iip-in.com

**LABORATORY TEST REPORT**

Test Report No. : IIP/3484-A/11/LAB/T-6/

Date : 17<sup>th</sup> October, 2011.

Sample Received from : M/S. N. B. COMMERCIAL ENTERPRISES  
PVT. LTD.,  
61, G.V.M.M., ODHAV,  
AHMEDABAD-382 410.

Ref. No. & Date : Letter dated 17/9/2011

Kind Attention : Mr. Rakesh Shah, Works Manager

Sample Details : Refer Test Report No: IIP/3484/11/LAB/T-6, except para two.

Test Results : **DIMENSIONS OF THE DRUM AS PER DRAWING SUBMITTED  
BY THE PARTY.**

1. Maximum external height of drum (mm)	: 925.00
2. Maximum external diameter of the drum at top (mm)	: 587.00
3. Minimum internal diameter of the mouth opening of the drum (mm)	: 45.10
4. Maximum gap between closures (mm)	: 405.00
5. Maximum depth of L-ring of the drum (mm)	: 24.00
6. Maximum diameter of the circle at bottom (mm)	: 355.00
7. Maximum distance between top & bottom rings (mm)	: 878.00
8. Minimum thickness of the body sheet (mm)	: 3.00
9. Average weight of the empty drum (kg.)	: 8.20
10. Ink adhesion test for printing	: Passes the test.

#####

Tested at: Party's works at ambient temperature.

Tests done as per: Drawing submitted by the party

TESTED BY NBLI ASST./DY. JT. DIRECTOR

This report is for Private use only. Not to be used for Publicity or litigation

SUCHETA B.  
JOINT DIRECTOR  
HEAD  
LABORATORIES DIVISION

Testing laboratories of Mumbai are accredited to NABL, BIS, Directorate General of Shipping and Directorate General of Civil Aviation, Govt. of India for specified tests.

IIP CENTERS : CHENNAI Tel : 044 - 2496 1560 KOLKATA Tel : 033 - 2367 0763 / 6016 NEW DELHI Tel : 011 - 2216 6703 HYDERABAD Tel : 040 - 2381 4321  
iipche@airtelmail.in iipcal@cal.vsnl.net.in iipdelhi@bol.net.in iiphyd@yahoo.com