



CERTIFICATE

NO.: 33372

Date: 25/9/2012.

This is to certify that the samples of the packages/packagings 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.,
PLOT NO. 155/C, B/H C.L. HIGH SCHOOL,
VILL: KATHWADA, TAL: DASKROL,
AHMEDABAD-382 430.

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

Application Reference : No. - dated 22/8/2012

Description of the package : Non-removable head type, L-ring, HMHDPE drum having
weight 9.0 kg. (235 litre capacity)

Date of Manufacture : 14/8/2012

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/19993 & 1993-A/12/LAB/T-5 dated 25/9/2012

UN Marking allotted :  1H1/Y 1.2/100/12
IND/95533372

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* AUGUST 13, 2013.


(DR. S.K. CHATTOPADHYAY)
PROFESSOR/ADDITIONAL 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.



MEMBER
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IIP CENTERS

Plot 169, Indl. Estate,
Perungudi,
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Fax : 044-2496 1077
iipchennai@iip-in.com

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Plot No. 21, Functional
Indl. Estate, Patparganj,
Opp. Patparganj Bus Depot,
NEW DELHI - 110 092.
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Lux-3, Industrial Estate,
Sanath Nagar,
HYDERABAD - 500 018.
Phone : 040-2381 4321
Fax : 040-2370 7148
iiphyd@iip-in.com



A N N E X U R E

FOR CERTIFICATE SR. NO. 33372 (PKG. GROUP-II CHEMICALS) DT : 25/9/2012

| NAME OF THE CHEMICALS | UN NO. | PACKING INSTRUCTION | CLASS | SUB-CLASS | MARINE POLLUTANT | EMS NO. |
|---|--------|---------------------|-------|-----------|------------------|-------------|
| HYDROCHLORIC ACID - HCL 32% | 1789 | P001 | 8 | - | - | 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 | - | F-H, S-Q |
| CARBON TETRA CHLORIDE | 1846 | P001 | 6.1 | - | P | F-A, S-A |
| ANILINE | 1547 | P001 | 6.1 | - | - | F-A, S-A |

S. K. Chattopadhyay
Dr. S. K. Chattopadhyay
Prof. & Additional Director

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The Asian Packaging Federation



LABORATORY TEST REPORT

Test Report No. : IIP/1993/12/LAB/T-5/

Date : 25th September, 2012.

Sample Received from : M/S. N. B. COMMERCIAL ENTERPRISES PVT. LTD.,
PLOT NO. 155/C, B/H C.L. HIGH SCHOOL,
VILL: KATHWADA, TAL: DASKROL,
AHMEDABAD-382 430.

Ref. No. & Date : Letter dated 22/8/2012

Kind Attention : Mr. J.M. Pradhan

Sample Details : One set (21 Nos.) of 235 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. 33372.

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 : 1010.0 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.

TESTED BY *[Signature]* Tests done as per: IMDG-CODE, VOLUME-I
ASST./DY. JT. DIRECTOR

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

[Signature]

Dr. S. K. Chattopadhyay
Prof. & Additional Director

HEAD

LABORATORIES DIVISION



CONTINUATION SHEET NO: 2

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

LABORATORY TEST REPORT

Test Report No. : IIP/1993/12/LAB/T-5/

Date : 25th September, 2012.

Test Results : **TESTS/OBSERVATION DETAILS**

1. **DROP TEST** (Drop Height: 1.20 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/cm².

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

...3.

Tested at: Party's works at ambient temperature.

TESTED BY *[Signature]* Test done as per : IMDG-CODE VOLUME I ASST. DIR./Jr. DIRECTOR

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[Signature]
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Prof. & Additional Director
HEAD
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HYDERABAD Tel : 040 - 2381 4321
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CONTINUATION SHEET NO : 3

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LABORATORY TEST REPORT

Test Report No. : IIP/1993/12/LAB/T-5/

Date : 25th September, 2012.

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/cm².

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 *[Signature]* ASST./DY./JT. DIRECTOR

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[Signature]
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VILL: KATHWADA, TAL: DASKROL,
AHMEDABAD-382 430.

Ref. No. & Date : Letter dated 22/8/2012

Kind Attention : Mr. J.M. Pradhan

Sample Details : Refer Test Report No: IIP/1993/12/LAB/T-5, except para two.

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

| | | |
|--|---|------------------|
| 1. Maximum external height of drum (mm) | : | 1010.00 |
| 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.) | : | 9.00 |
| 10. Ink adhesion test for printing | : | Passes the test. |

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Tested at: Party's works at ambient temperature.

Tests done as per: Drawing submitted by the party.

TESTED BY *YDP*

ASST./DY./JT. DIRECTOR

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