

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  
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## CERTIFICATE

NO.: 24566

Date: 19/7/2010.

This is to certify that the samples of the packages/packagegins 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 16/6/2010

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

**Date of Manufacture** : 16/6/2010

**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/888 & 888-A/10/LAB/T-4 dated 19/7/2010

**UN Marking allotted** :  1H1/Y 1.2/100/0610  
IND/95524566

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 DECEMBER 15, 2010**.

*M. C. Dordi*

(M. C. DORDI)  
PROFESSOR  
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.

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INDIAPACK 2010

International Packaging Exhibition  
30<sup>th</sup> Sept. - 3<sup>rd</sup> Oct. 2010, Mumbai.  
E-mail - iipend@iip-in.com  
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## A N N E X U R E

### FOR CERTIFICATE SR. NO. 24566 (PKG. GROUP-II CHEMICALS) DT : 19/7/2010

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

*mc Dordi*  
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**LABORATORY TEST REPORT**

Test Report No. : IIP/888/10/LAB/T-4/

Date : 19<sup>th</sup> July, 2010.

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 16/6/2010

Kind Attention : Mr. Rakesh Shah, Works Manager

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. 24566.

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 : 1910.0 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 NBLI

ASST./DY./JT. DIRECTOR

*M.C. Dordi*  
**M. C. DORDI**  
PROFESSOR & HEAD  
LABORATORIES DIVISION

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**LABORATORY TEST REPORT**

Test Report No. : IIP/888/10/LAB/T-4/

Date : 19<sup>th</sup> July, 2010.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/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 *NBL*
  
 ASST./DY./JT. DIRECTOR

*M C Dordi*  
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CONTINUATION SHEET NO : 3

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**LABORATORY TEST REPORT**

Test Report No. : IIP/888/10/LAB/T-4/

Date : 19<sup>th</sup> July, 2010.

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*

*Mu*  
ASST./DY./Jr. DIRECTOR

*mc Dordi*  
**M. C. DORDI**  
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AHMEDABAD-382 410.

Ref. No. & Date : Letter dated 16/6/2010

Kind Attention : Mr. Rakesh Shah, Works Manager

Sample Details : Refer Test Report No: IIP/888/10/LAB/T-4, 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.

#####

Tested at: Party's works at ambient temperature.

Tests done as per: Drawing submitted by the party.

TESTED BY *NBL*

*NBL*  
ASST. DIR. / JT. DIRECTOR

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