



**CENTRAL LEATHER RESEARCH INSTITUTE**  
**(Council of Scientific & Industrial Research)**  
**Adyar, Chennai-600 020, India**

Ph: 0091-44-24430268,  
24437100 – Extn. 7216,7204  
Fax: 0091-44-  
24430267,24911589  
E-mail: excel@clri.res.in

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**EXPERTISE CENTRE FOR ECO TESTING LABORATORY (EXCEL)**

**Dr. C. Muralidharan**  
Head, EXCEL

**Report No: EXCEL/AZO/22 L/2012**

**20<sup>th</sup> July, 2012**

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- = Not detected, + = detected (Amount in brackets)

- 1) = Azo group reduced to amino group
- 2) = Nitro group reduced to amino group
- 3) = Arylamines according to the German “ 2. Verordnung zur Änderung dert Bedarfsgegenstandeverordnung” dated of July 5th, 1994.

The results given are exclusively based on the tested item.

It is prohibited to copy the test report in extracts without the permission of the institute.

The test samples and excess test material will be discarded after 6 months.



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**Report No: EXCEL/AZO/22 L /2012**

**20<sup>th</sup> July, 2012**

M/s. Contemporary Leather Private Ltd.,  
2/400, Mount Poonamallee High Road  
Iyyappanthangal, Poonamallee  
Chennai 600 056.

Sub: Determination of the content of banned azo-dyestuffs.

**Test item: Semi Veg - Tan**

**Ref:** Your letter received on 13.07.2012

Dear Sirs,

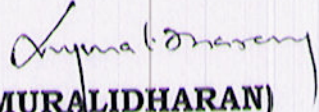
With reference to your letter, the test report for the sample mentioned is given below:  
The use of banned azo-dyestuffs in the production of consumer articles and products is considered to be detected when the test sample or a part of it has released any of the listed amines under the conditions of the procedure and the amount of an individual amine is more than 30 mg/kg. (see page-2)

Brief Description: Reduction in buffer solution at pH 6 with sodiumdithionite at 70°C.Liquid-liquid-extraction on EXTRELUT. Determination of the released amines by means of GC/MSD, CE/DAD, HPTLC, HPLC.

This test procedure is based on German procedure DIN 53316.

**According to the results, banned amines are not detected.**

Yours sincerely,

  
(C. MURALIDHARAN)



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Released Arylamines	CAS – No.	Detected (mg/kg)
4-Aminobiphenyl	92-67-1	-
Benzidine	92-87-5	-
4- Chlor- o- Toluidine	95-69-2	-
2- Naphtylamine	91-59-8	-
o-Aminoazotoluol (reduction <sup>1</sup> Product)	97-56-3	-
2-Amino -4- nitrotoluol (reduction <sup>2</sup> product)	99-55-8	-
p-chloraniline	106-47-8	-
2,4-Diaminoanisol	615-05-4	-
4,4' – Diaminodiphenylmethane	101-77-9	-
3,3' – Dichlorbenzidine	91-94-1	-
3,3' - Dimethoxybenzidine	119-90-4	-
3,3'- Dimethylbenzidine	119-93-7	-
3,3'- Dimethyl-4,4'- diaminodiphenylmethane	838-88-0	-
p- Cresidine	120-71-8	-
4,4'- Metylen-bis- (2-chloraniline)	101-14-4	-
4,4'- oxydianiline	101-80-4	-
4,4'- Thiodianiline	139-65-1	-
o-Toluidine	95-53-4	-
2,4-Toluyldiamine	95-80-7	-
2,4,5-Trimethylaniline	137-17-7	-
o – Anisidine	90-04-0	-
2,4 – Xylidine	95-68-1	-
2,6 – Xylidine	87-62-7	-
p – Phenylenediamine *	106-50-3	-

- 4-Aminoazobenzene is converted to p-Phenylenediamine in test conditions