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TEST REPORT



TESTING
CNAS L4577
January 12, 2015
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Report No.: SH63008-14

APPLICANT:
Vicsa Safety Comercial Limitada

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Test(s) requested : -- Product Category : -- Product Type : --
Sample description: Force
Style / Article no.: 301000760668 301000760669 Buyer:
301000760670
Ref no.: Force Exported to:
Date of receipt of application form: December 24, 2014
Date of receipt of sample: December 24, 2014
End use: -- Testing period: December 24, 2014 --
January 12, 2015
Number of sample(s) SEVERAL PAIRS OF SAMPLES Service required: REGULAR

1. Conclusion:

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
Dexterity of glove	Level 3	(S01)	--
Sizing of glove	7, 7, 8	(S01)(S11)(S12) (S13)(S14)(S15)	--
Abrasion resistance of glove	Level 2	(S02)	--
Blade cut resistance of glove	Level 1	(S02)	--
Tear resistance of glove	Level 2	(S02)	--
Puncture resistance of glove	Level 1	(S02)	--
Azo dyes	P P P P P P P P	(S02)(S03)(S04)(S05) (S06)(S07)(S08)(S09)(S10)	--
pH value	P P F P P P P P	(S02)(S03)(S04)(S05) (S06)(S07)(S08)(S09)(S10)	(S04)
Dimethyl Fumarate Content	P	(S02)	--
Tin detection	P	(S02)	--
Cadmium detection	P P P	(S02)(S03)(S04)	--

■ This test is not covered by CNAS accreditation.

Note: P: Pass F: Fail

Comments:

For the submitted samples, the Dexterity got level 3; the Sizing of gloves were 7, 7, 8 according to EN420 standard. The pH value test performed on black fingertip failed the requirement according to EN420 standard. The Abrasion resistance of glove got level 2; Blade cut resistance of glove got level 1; the Tear resistance of glove got level 2; the Puncture resistance of glove got level 1 according to EN388 standard. All the other tests passed the requirements.

Approved by

Original Signed
Henry YAN
Lab Manager

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2. Label(s) on the sample(s):

Sample(s)	Size	Style / Article no.:	Sub-sample(s)	Component(s)	Colour
(01)	--	301000760668 301000760669 301000760670	(a)	Glove	Black/Yellow
			(b)	Palm	Black
			(c)	Palm	Yellow
			(d)	Fingertip	Black
			(e)	Thumb	Black
			(f)	Fourchette	Black
			(g)	Back	Yellow
			(h)	Back	Black
			(i)	Cuff	Black
			(j)	Binding	Black
(02)	--	301000760668 301000760669 301000760670	(a)	Glove	Black/Yellow
(03)	--	301000760668 301000760669 301000760670	(a)	Glove	Black/Yellow
(04)	--	301000760668 301000760669 301000760670	(a)	Glove	Black/Yellow
(05)	--	301000760668 301000760669 301000760670	(a)	Glove	Black/Yellow
(06)	--	301000760668 301000760669 301000760670	(a)	Glove	Black/Yellow

3. Sample(s) description assigned by laboratory:

Test item	Sample(s)	Combine / Separate sub-sample(s)
(S01)	(01)	(a)
(S02)	(01)	(b)
(S03)	(01)	(c)
(S04)	(01)	(d)
(S05)	(01)	(e)
(S06)	(01)	(f)
(S07)	(01)	(g)
(S08)	(01)	(h)
(S09)	(01)	(i)
(S10)	(01)	(j)
(S11)	(02)	(a)
(S12)	(03)	(a)
(S13)	(04)	(a)
(S14)	(05)	(a)
(S15)	(06)	(a)



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4. Testing result:

4.1 EN 420

TEST METHOD		Test item(s)		Requirement	P/F
		(S01)			
1	Dexterity of glove # (EN 420:2003 §6.2+A1:2009) Highest value of four tests : Performance Level :	8.0 3		--- ---	---

Note: P: Pass F: Fail

TEST METHOD		Test item(s)		Requirement	P/F
2	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S01 S11	Total length (mm) 230 230	Glove Size 7		

Note: P: Pass F: Fail

TEST METHOD		Test item(s)		Requirement	P/F
3	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S12 S13	Total length (mm) 236 236	Glove Size 7		

Note: P: Pass F: Fail

TEST METHOD		Test item(s)		Requirement	P/F
4	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S14 S15	Total length (mm) 242 242	Glove Size 8		

Note: P: Pass F: Fail

*Remark: Only two samples were measured for each sizing.

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4.2 EN 388

TEST METHOD		Test item(s)		Requirement	P/F	
		(S02)				
1	Blade cut resistance of glove # (EN 388:2003 §6.2) Sequence	Index (I)				
		Test 1	Test 2			
		1	2.4			2.0
		2	2.4			1.9
		3	2.4			1.8
		4	2.5			2.0
		5	2.2			2.1
	Average (I):	2.4	2.0			
	Lowest average value (I) :	2.0		---		
	Performance Level :	1		---	---	
2	Tear resistance of glove # (EN 388:2003 §6.3) Lowest value of four tests (N):	32		---		
		2		---	---	
3	Puncture resistance of glove # (EN 388:2003 §6.4) Lowest value of four tests (N):	30		---		
		1		---	---	
4	Abrasion resistance of glove # (EN 388:2003 §6.1) Lowest value of four tests :	1000		---		
		2		---	---	

Refer to the below page for details of the performance level of glove.

Note: P: Pass F: Fail

Table of Performance Level for Glove

Test Item	Performance Level					
	0 ^{##}	1	2	3	4	5
Abrasion Resistance (EN 388:2003 §6.1) Number of cycles (minimum)	< 100	100	500	2000	8000	---
Blade Cut Resistance (EN 388:2003 §6.2) Index (I) (minimum)	< 1.2	1.2	2.5	5.0	10.0	20.0
Tear Resistance (EN 388:2003 §6.3) Force (N) (minimum)	< 10	10	25	50	75	---
Puncture Resistance (EN 388:2003 §6.4) Force (N) (minimum)	< 20	20	60	100	150	---
Dexterity (EN 420:2003 §6.2+A1:2009) Diameter of pin (in mm)	---	11.0	9.5	8.0	6.5	5.0

^{##} Performance level 0 means the glove falls below the minimum performance level for the given individual hazard.

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4.3 Azo dyes

	TEST METHOD	Test Items	Client Requirement	P/F
		(S02)		
1	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

	TEST METHOD	Test Items	Client Requirement	P/F
		(S03)		
2	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

	TEST METHOD	Test Items	Client Requirement	P/F
		(S04)		
3	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

	TEST METHOD	Test Items	Client Requirement	P/F
		(S05)		
4	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

	TEST METHOD	Test Items	Client Requirement	P/F
		(S06)		
5	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

	TEST METHOD	Test Items	Client Requirement	P/F
		(S07)		
6	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

	TEST METHOD	Test Items	Client Requirement	P/F
		(S08)		
7	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

	TEST METHOD	Test Items	Client Requirement	P/F
		(S09)		
8	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

	TEST METHOD	Test Items	Client Requirement	P/F
		(S10)		
9	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

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*Test method according to EN 14362-1:2012 or EN ISO 17234-1:2010 or EN 14362-3:2012 or EN ISO 17234-2:2011. Removal of fat by n-hexane (in case of leather), treatment with citric buffer, reductive cleavage with sodium dithionite, extraction with ether, detection by GC/MS and/or HPLC/DAD. (Detection limit: 5 mg/kg)

List of aromatic amines

(Detection limit: 5mg/kg)

Benzidine	3,3'-Dimethoxybenzidine	O-Anisidine
4-Aminobiphenyle	3,3'-Dimethylbenzidine	4-Aminoazobenzene
4-Chloro-O-Toluidine	4,4'-Methylenedi-o-Toluidine	2,4 Xylidine
2-Naphthylamine	P-Cresidine	2,6 Xylidine
O-Aminoazotoluene	4,4'-Methylene-BIS-(2-Chloroaniline)	
5-Nitro-O-Toluidine	4,4'-Oxydianiline	
4-Chloroaniline	4,4'-Thiodianiline	
4-Methoxy-M-Phenylenediamine	O-Toluidine	
4,4'-Diaminodiphenylmethane	2,4,5-Trimethylaniline	
3,3'-Dichlorobenzidine	4-Methyl-M-Phenylenediamine	

Interpretation of test results:

- (1) In the case of levels per amine component ≤ 30 mg/kg: Not detected. According to the analysis as carried out, azo colourants banned under the ordinance on commodities were not detected in the article submitted.
- (2) In the case of levels per amine component > 30 mg/kg: The analysis result suggests that the article submitted has been manufactured or treated by using azo colourants banned under the ordinance on commodities.
- (3) In case of a result between 25 and 35 mg/kg: We remark that due to the error range of the method, these measurement values represent a border line case.
- (4) For determination of 4-Aminoazobenzene, EN 14362-3:2012 or EN ISO 17234-2:2011 will be performed on the sample.

4.4 pH value

According to EN ISO 3071:2006

TEST METHOD	Test Items			Client's Requirement	P/F
	(S02)	(S03)	(S04)		
pH value Average value(nearest to 0.1)	6.6	8.3	9.6	>3.5 & <9.5	PPF

Note: P: Pass F: Fail

TEST METHOD	Test Items			Client's Requirement	P/F
	(S05)	(S06)	(S07)		
pH value Average value(nearest to 0.1)	6.6	8.2	8.8	>3.5 & <9.5	PPP

Note: P: Pass F: Fail

TEST METHOD	Test Items			Client's Requirement	P/F
	(S08)	(S09)	(S010)		
pH value Average value(nearest to 0.1)	8.1	7.1	7.6	>3.5 & <9.5	PPP

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4.5 Dimethyl Fumarate Content:

	TEST METHOD	Test Items		Requirement	P/F
		(S02)			
1	Dimethyl Fumarate Content (CAS: 624-49-7) (ISO/TS 16186: 2012) Detection Limit: =0.1mg/kg	<0.1		<0.1	P

Note: P: Pass F: Fail

Remark:

Laboratory Reporting Limit = 0.1 mg/kg

Mg/kg = milligram per kilogram

ND = Not detected

Method: Sample was extracted with organic solvent and analyzed by Gas Chromatograph Mass Spectrometer.

4.6 Tin Detection:

	TEST METHOD	Test Items		Requirement	P/F
		(S02)			
	Tin XRF Screening (With reference to ASTM F 2617-08) Metal Content in (mg/kg or ppm)	<350		<350	P

Note: P: Pass F: Fail

4.7 Cadmium Detection:

	TEST METHOD	Test Items			Requirement	P/F
		(S02)	(S03)	(S04)		
	Cadmium XRF Screening (With reference to ASTM F 2617-08) Metal Content in (mg/kg or ppm)	<100	<100	<100	<100	PPP

Note: P: Pass F: Fail

- End of report -

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