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Our reference: FTC 16/260

Jubel Holdings (Pty) Ltd
Private Bag X2
WOODHILL
Pretoria East
0081

Attention: Mr. Jonathan Metcalf

23 February 2017

Dear Sir

SMALL-SCALE FIRE PROPERTIES: HALO LED STRIP LIGHT

1. SAMPLE DESCRIPTION

The strip light sample was delivered to **FIRELAB** for the evaluation of its small-scale fire properties. The specimen is intended for underground use in mines.

The sample was tested for both the basic fire properties and the toxicity of combustion products on the 20th and 23rd February 2017 respectively.

The sample tested was identified as follows:

Product name:	Halo LED Strip Light
Main Composition:	Silicon
Width:	100 mm

Annexure "A": Company and product information

Annexure "B": MSDS (only the first pages)



Figure 1.1: Identification of the sample received for testing

2. TEST METHODS

2.1. TOXICITY OF COMBUSTION GASES, DEFSTAN (NES 713)

One gram ($1 \text{ g} \pm 5 \text{ mg}$) of the material was burned in a chamber with a volume of 1 m^3 . The concentrations of certain specified gases were determined by means of colorimetric (Dräger) tubes. These concentrations were then used to calculate the quantities of gases given off by burning 100 g of material in a cubic meter (1 m^3) of air.

The toxicity index is calculated from the summation of the ratios of these concentrations to the concentrations causing fatality to man after a 30-minute exposure time. Gases to be determined and their fatality limits are:

Gas	Chemical Formula	Conc. (ppm)	Gas	Chemical Formula	Conc. (ppm)
Carbon Dioxide	CO ₂	100 000	Nitrous Oxides	N ₂ O	250
Carbon Monoxide	CO	4 000	Hydrogen Cyanide	HCN	150
Formaldehyde	CH ₂ O	500	Acrylonitrile	C ₃ H ₃ N	400
Hydrogen Fluoride	HF	100	Ammonia	NH ₃	750
Hydrogen Chloride	HCl	500	Sulphur Dioxide	SO ₂	400
Hydrogen Bromide	HBr	150	Hydrogen Sulphide	H ₂ S	750
Phenol	C ₆ H ₅ OH	250	Phosgene	COCl ₂	25

2.2. SMALL-SCALE FIRE PROPERTIES, SANS 10177 – 9

The specimen was secured in the test frame. The frame was suspended in a 300 mm x 300 mm x 2.1 m high metal chimney along its length approximately 65 mm above the Bunsen burner.

A Bunsen burner with a flame length of 200 mm and a temperature of $\pm 1\,000\text{ }^{\circ}\text{C}$ was applied at an angle of 45° 100 mm below the bottom edge of the sample for a period of 10 minutes.

The temperature near the top of the chimney was recorded with a single K-type thermocouple. This temperature was used to determine the heat contribution of the test specimen in comparison to the plot obtained from a “blank” run.

Other observations related to the presence of flaming droplets, the propensity to self-extinguish upon removal of the burner and rate of flame spread along the height of the specimen were also noted.

3. RESULTS

3.1. TOXICITY OF COMBUSTION GASES, DEFSTAN (NES 713)

Jubel Holdings – Halo LED Strip Light			
Gas detected	Chemical Formula	Conc./100 g (ppm)	Toxicity Index
Carbon Dioxide	CO ₂	110 000	1.100
Carbon Monoxide	CO	4 500	1.125
Hydrogen Chloride	HCl	-	-
Nitrous Oxides	N ₂ O	100	0.400
Hydrogen Cyanide	HCN	Traces	-
Sulphur Dioxide	SO ₂	-	-
Hydrogen Sulphide	H ₂ S	-	-
Total Toxicity Index			2.625

Figure 3.1.1: Toxicity test results of the sample

3.2. BASIC FIRE PROPERTIES, SANS 10177 – 9

Jubel Holdings – Halo LED Strip Light

Observations during SANS 10177 – Part 9 Test

Time to Ignition/Flaming	21 sec
Sample burning after removal of burner at 12 seconds	No
Sample burning after removal of burner at 24 seconds	Yes
Length of flame spread	165 mm
Heat Contribution over 10-minute period	0.53 °C/min
Maximum temperature in chimney above calibration temperature	5.3 °C

Note(s): Calibration temperature 11.0 °C; ambient temperature 22.9 °C
 No flame spread occurred outside ignition source area

Figure 3.2.1: Part 9 test results of the sample

4. DISCUSSION OF RESULTS

4.1 TOXICITY OF COMBUSTION GASES, DEFSTAN (NES 713)

The toxicity levels of the combustion gases released by the sample are well within the maximum permissible levels (5.000) acceptable by the mining industry.

4.2 BASIC FIRE PROPERTIES, SANS 10177 – 9

During the small-scale fire propagation test, the specimen ignited at approximately 21 seconds. At approximately 2 minutes and 21 seconds, large flaming debris dropped down and self-extinguished shortly afterwards. After the debris dropped down, the specimen only continues to glow up to approximately 2 minutes and 45 seconds.

No flaming or molten droplets were observed.

5. CONCLUSION

The **Halo LED Strip Light** sample tested performed well and is suitable for underground use in mines.

The material is combustible and therefore storage should be managed in accordance to the relevant safety requirements that may be applicable at the respective mine.

Yours faithfully

A handwritten signature in black ink, appearing to be "E Nel".

E Nel

FIRELAB

– Company Information –		 FIRELAB
Company Name:	Jubel Holdings (PTY) Ltd	
Company Trading Name:	Same as Above	
Company Registration Nr.:	2015/345681/07	
Company VAT Nr.:	Pending	
Core Business Activities:	Resale	
Postal Address:	Private Bag X2, Woodhill, Pretoria East 0081	
Physical Address:	No 5 Zwavelplace, Achillies Road, Olympus, Pretoria East	
Company contact number:	+27 83 679 1069	
Direct Contact Details		
Technical (name):	Jonathan Metcalf	
Cell phone number:	+27 83 679 1069	
Email address:	jonathanm@imagine.co.za	
Financial (name):	Sharon Metcalf	
Cell phone number:	+27 82 4488433	
Email address:	sharonm@imagine.co.za	
– Test & Sample Information –		
Type of Test:	Toxicity test on the material used, flame propagation in vertical test	
Sample/Product name:	LED Strip light made from Silicone material	
Manufacturing Date:	2017	
Batch/Product Number:	Halo Strip light	
Sample/Product Description:	100mm LED strip light made from Silicone and also need to test the connection plugs	
<i>(Short description of sample or product submitted for testing)</i>		

– SANS 10177 – Part 9 & NES 713 (TOX) – – Product Description –		 FIRELAB
Product description:		
Product name:	Halo LED Strip lights	
Product Manufacturer:	Halo Lights	
Manufacturer Date:	2017	
Product Code No.:	Halo Generation 2	
Batch No.:	No 1	
Proposed Usage:	Underground, mining, confined spaces	
Generic Identification:	Halo Lights	
Physical description:		
Actual Mass (g/m ²):		
Thickness (mm):		
Width (mm):		
Length (mm):		
Product composition:		
Layer 1:		
Layer 2:		
Layer 3:		
Layer 4:		
Layer 5:		
Additional Information – MSDS:		

JUNE 2015



**Test Report
(SVHC)**

No. CANEC1504443901

Date: 03 Apr 2015

Page 1 of 15

ZHEJIANG FUSHITE SILICONE PRODUCTS CO., LTD.
NO 19,JIANGDIAN ROAD,ECONOMICAL DEVELOPMENT ZONE,JIANGSHAN,ZHEJIANG

The following sample(s) was/were submitted and identified on behalf of the clients as : SILICON MIXING GUM

SGS Job No. : CP15-014997 - SZ

Model No. : 70

Date of Sample Received : 27 Mar 2015

Testing Period : 27 Mar 2015 - 03 Apr 2015

Test Requested : As requested by client, SVHC screening is performed according to:
(i) One hundred and sixty one (161) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Dec 17, 2014 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results : Please refer to next page(s).

Summary :

According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Echo

Echo Yeung
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

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Test Report

No. CANEC1504443903 A01

Date: 15 Apr 2015

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ZHEJIANG FUSHITE SILICONE PRODUCTS CO., LTD.

NO 19,JIANGDIAN ROAD,ECONOMICAL DEVELOPMENT ZONE,JIANGSHAN,ZHEJIANG

This report is to supersede test report CANEC1504443902.

The following sample(s) was/were submitted and identified on behalf of the clients as : SILICON MIXING GUM

SGS Job No. : CP15-014997 - SZ

Model No. : 70

Date of Sample Received : 27 Mar 2015

Testing Period : 27 Mar 2015 - 03 Apr 2015

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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Echo Yeung
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Test Report

No. CANEC1504443904 A01

Date: 15 Apr 2015

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ZHEJIANG FUSHITE SILICONE PRODUCTS CO., LTD.

NO 19,JIANGDIAN ROAD,ECONOMICAL DEVELOPMENT ZONE,JIANGSHAN,ZHEJIANG

This report is to supersede test report CANEC1504443902.

The following sample(s) was/were submitted and identified on behalf of the clients as : SILICON MIXING GUM

SGS Job No. : CP15-014997 - SZ
Model No. : 70
Date of Sample Received : 27 Mar 2015
Testing Period : 27 Mar 2015 - 03 Apr 2015
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Signed for and on behalf of
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Test Report

No. CANEC1504443905 A01

Date: 15 Apr 2015

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NO 19,JIANGDIAN ROAD,ECONOMICAL DEVELOPMENT ZONE,JIANGSHAN,ZHEJIANG

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Test Report

No. CANEC1504443906 A01

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NO 19,JIANGDIAN ROAD,ECONOMICAL DEVELOPMENT ZONE,JIANGSHAN,ZHEJIANG

This report is to supersede test report CANEC1504443902.

The following sample(s) was/were submitted and identified on behalf of the clients as : SILICON MIXING GUM

SGS Job No. : CP15-014997 - SZ
Model No. : 70
Date of Sample Received : 27 Mar 2015
Testing Period : 27 Mar 2015 - 03 Apr 2015
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

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Test Report

No. CANEC1504478401

Date: 07 Apr 2015

Page 1 of 8

ZHEJIANG FUSHITE SILICONE PRODUCTS CO., LTD.

NO 19,JIANGDIAN ROAD,ECONOMICAL DEVELOPMENT ZONE,JIANGSHAN,SHEJIANG

The following sample(s) was/were submitted and identified on behalf of the clients as : SILICON MIXING GUM

SGS Job No. : CP15-015333 - SZ
 Model No. : 70
 Date of Sample Received : 27 Mar 2015
 Testing Period : 27 Mar 2015 - 07 Apr 2015
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation -Extractable components	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Lead and Cadmium	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation–Volatile organic matter (VOM)	PASS
Polycyclic Aromatic Hydrocarbons (PAHs)	PASS

Conclusion : The tested parameters comply with the requirements stating under German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB) with amendments, Section 30 & 31, and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.



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Test Report

No. CANEC1504478402

Date: 07 Apr 2015

Page 1 of 3

ZHEJIANG FUSHITE SILICONE PRODUCTS CO., LTD.

NO 19,JIANGDIAN ROAD,ECONOMICAL DEVELOPMENT ZONE,JIANGSHAN,SHEJIANG

The following sample(s) was/were submitted and identified on behalf of the clients as : SILICON MIXING GUM

SGS Job No. : CP15-015333 - SZ
 Model No. : 70
 Date of Sample Received : 27 Mar 2015
 Testing Period : 27 Mar 2015 - 07 Apr 2015
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
FDA 21 CFR 177.2600–Total extractive residues	PASS

Conclusion : The tested parameters comply with the requirement stating under Food and Drug Administration Regulations.

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Ivy Ren
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