



The Safety Company

UN 38.3 TEST SUMMARY REPORT

MSA Corporate Center

1000 Cranberry Woods Drive
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July 16, 2019

Associated MSA Product(s): MSA OptimAir® TL Powered Air-Purifying Respirator

The attached test report summary has been prepared in accordance with *The UN Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria, Amendment to the 6th Edition, Section 38.3.5 – Lithium cell or battery test summary*. The attached summary indicates the successful completion of tests as required in the UN Manual of Tests and Criteria for the **MSA OptimAir® TL PAPR Long-life Battery**.

The original test data is confidential information available to competent Authorities with valid identification and only upon the review by MSA of a written formal request. Disclosure of original test data may be subject to the execution of a nondisclosure agreement.

Sincerely,

David F. Vogt

Global Environmental Program Manager



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Lithium Cell or Battery Test Summary in Accordance with Section 2.9.4 UN Model Regulations and Sub-section 38.3 of the UN Manual of Tests and Criteria, Part III, Sub-section 38.3.5.

[a] Manufacturer

MSA Safety Incorporated

[b] Manufacturer Contact Information

1000 Cranberry Woods Drive
Cranberry Twp., PA 16066 USA
T: 1-800-MSA-2222
www.MSAnet.com

[c] Test Laboratory

Motorola Product Testing Services
(MPTS)

1700 Belle Meade Court
Lawrenceville, Georgia 30043
USA
T: +1-770-338-3795

[d] Test Report ID# MPTS#1653

[e] Test Report Date 2007.09.27

[f] Description: Small lithium ion battery pack, 14.8 V, 4500 mAh utilized in the following MSA products: OptimAir® TL Powered Air-Purifying Respirator (PAPR) [p/n 10081115, 10081117]

Lithium Ion

Lithium Metal

Mass (g)	560 g	Watt-hour Rating	66.6	Lithium Content	N/A
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Model Number(s)	10076109 – OptimAir® TL PAPR Long-life battery
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[g] List of Test Conducted**Result (Pass / Fail / N/A)**

38.3.4.1 T.1: Altitude simulation	Pass
38.3.4.2 T.2: Thermal test	Pass
38.3.4.3 T.3: Vibration	Pass
38.3.4.4 T.4: Shock	Pass
38.3.4.5 T.5: External short circuit	Pass
38.3.4.6 T.6: Impact/Crush (cell only)	N/A
38.3.4.7 T.7: Overcharge (packs only)	Pass
38.3.4.8 T.8: Forced discharge (cell only)	N/A

[h] Battery Assembly: Not Applicable UN38.3.3 (f) UN38.3.3 (g)

[i] Test Reference: Manual of Tests and Criteria Amendments, 3rd Edition, Section 38.3

[j] Signatory – Global Environmental Health and Safety

Date: July 16, 2019

Name: David F. Vogt

Title: Global Environmental Program Manager

Signature:

Notice – The above signatories affirm that this UN 38.3 Test Summary Report is an accurate and correct summary of the original tests. The original test data is confidential information available to competent Authorities with valid identification and only upon the review by MSA of a written formal request. Disclosure of original test data may be subject to the execution of a nondisclosure agreement.