



The Safety Company

UN 38.3 TEST SUMMARY REPORT

MSA Corporate Center

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October 31, 2019

Associated MSA Product(s): MSA Altair® io360

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 **Altair® io360 Multigas Detector Lithium Metal Battery**. The attached summary applies to all configurations of the MSA Altair® io360.

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 and approval of the cell manufacturer.

Sincerely,

David F. Vogt

Global Environmental Program Manager



The Safety Company

UN 38.3 TEST SUMMARY REPORT

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

Tadiran Batteries Ltd.

[b] Manufacturer Contact Information

P.O. Box 1
Kiryat Ekron, Israel 70500
T: +972 8 9 44 560
sales@tadiran-batt.com
www.tadiran.com

[c] Test Laboratory

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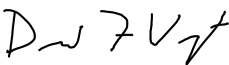
[d] Test Report ID#	15Q-607
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[e] Test Report Date	June 1, 2003
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[f] Description: Small primary lithium thionyl chloride (Li-SOCL₂) cell, C-size, 3.7V, 8270 mAh utilized in the following MSA products: Altair® io360

<input type="checkbox"/> Lithium Ion		<input checked="" type="checkbox"/> Lithium Metal	
Mass (g)	52.0 g	Watt-hour Rating	30.6
		Lithium Content	2.5 g
Model Number(s)	Tadiran – TL-5920		

[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)	Pass
38.3.4.7 T.7: Overcharge (packs only)	N/A
38.3.4.8 T.8: Forced discharge (cell only)	Pass
[h] Battery Assembly: <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> UN38.3.3 (f) <input type="checkbox"/> UN38.3.3 (g)	
[i] Test Reference: Manual of Tests and Criteria Amendments, Sixth Edition, Section 38.3	

[j] Signatory – Global Environmental Health and Safety
Date: October 31, 2019
Name: David 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.