

Test Report No. : Q00069254f1 001

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Client: SCAPEQUEST PTY. LTD. TRADINGAS BATTLEFIELD SPORTS

Unit 1, 6 Graham Street, Underwood, Brisbane, Queensland, Australia

Test Item(s): Non toys

**Identification/
Model No(s):** High grade infrared gun that includes digital radio emitter

Sample Receiving date: 05 Mar. 2011
07 Mar. 2011
16 Mar. 2011

Delivery condition: Apparent good, Samples tested as received

Test Specification:

Organotin compounds content according to REACH Regulation (EC) No. 1907/2006 Annex XVII Item 20 and amendment Commission Regulation (EU) No. 276/2010 (formerly known as 2009/425/EC)

Test Result:


PASS

Other Information:

Country of Origin: Australia, Korea, China
Country of Destination: EU, USA, Australia

For and on behalf of
TÜV Rheinland (Hong Kong) Ltd.

27 Jun. 2011
Date



San Ho / Manager
Name / Position

*Test result is drawn according to the kind and extent of tests performed.
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*



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Material List

Item: High grade infrared gun that includes digital radio emitter

Material No.	Material	Color	Location
M002	Plastic + printing + adhesive	Transparent with multicolor printing	Grill Cover Label (Red)
M003	Plastic + printing	Grey with grey printing	Enclosure
M004	Plastic	Orange	Muzzle / Trigger / IR Emitter Barrel
M005	Plastic	Black	Reflex Sight Led / Cable Support / Recharge Dust Cap
M006	Plastic	Transparent black	Gun Mounted Sensor
M007	Plastic	Transparent	LCD Display Lens / Reflex Sight Lens
M008	Plastic	Transparent black	Head Sensor Dome / Head Sensor Base
M009	Plastic	Black	Button
M010	Plastic	Red	Button
M013	Plastic	Black	Muzzle Lens Gasket / LCD Lens Gasket
M014	Plastic	Transparent	Head Sensor Dome - LED light cover / Body - LED light cover
M015	Plastic	Black	Head Sensor Dome - Transistor
M016	Plastic	Black	Head Sensor Dome - Jumper
M017	Plastic	Black	Head Sensor Dome - Wire Strap
M018	Plastic	White	Head Sensor Dome - Wire / Body - Wire
M019	Plastic	Black	Head Sensor Dome - Wire / Body - Wire
M020	Plastic	Red	Head Sensor Dome - Wire / Body - Wire
M021	Plastic	Light Green	Head Sensor Dome - Wire / Body - Wire
M022	Plastic	Yellow	Head Sensor Dome - Wire / Body - Wire
M023	Plastic	Blue	Head Sensor Dome - Wire / Body - Wire
M024	Plastic	Green	Head Sensor Dome - Wire / Body - Wire
M025	Plastic	Grey	Body - Wire
M026	Plastic	Purple	Body - Wire
M027	Plastic	Brown	Body - Wire
M028	Plastic	Black	Body - Wire holder
M029	Plastic + coating	Black with black and white coating	Head Sensor Dome - PCBoard
M030	Plastic	White	Body - Wire connector / Body - Connector on PCBoard
M031	Plastic + coating	Light green with black coating	Body - Battery wrap
M032	Plastic	Black	Body - Battery cap
M033	Plastic	Black	Body - Battery bottom foam
M034	Plastic + printing	White with black and red printing	Body - Bus

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Material No.	Material	Color	Location
M035	Plastic	Black	Body - Bus connector / Body - Connector on PCBoard
M036	Coating	Green and white	Body - PCBoard
M037	Plastic	Black	Body - Epoxy
M038	Coating	Black	LCD Display Lens - Frame
M039	Plastic	Transparent black	LCD Display Lens - Film
M040	Plastic	Black	Body - Plastic box
M041	Plastic	Transparent	LCD Display Lens - Gel
M042	Plastic + adhesive	White	LCD Display Lens - Cover
M043	Plastic + adhesive	Silvery	LCD Display Lens - Film
M044	Plastic	Grey and black	LCD Display Lens - Gasket
M045	Plastic	White	LCD Display Lens - Box
M046	Coating	White and black	LCD Display Lens - Box
M047	Plastic	Black	Speaker - Rim
M048	Plastic	Transparent	Speaker
M049	Plastic	Black	Speaker
M050	Plastic + coating	Transparent with silvery coating	Speaker
M051	Plastic + adhesive	Black	Body - Tape on PCBoard
M052	Plastic + printing	Black with white printing	Body - Capacitor wrapping on PCBoard
M053	Plastic	Transparent	Memory Card - Glue
M054	Plastic + printing + adhesive	Transparent with multicolor printing	Memory Card
M055	Plastic	Transparent black and grey	Memory Card
M056	Plastic	Translucent	Body - Rim
M057	Plastic	Transparent blue	Body - LED light cover
M058	Plastic + printing	Black with white printing	Body - Wire wrapper
M059	Plastic	Translucent	Body - Wire
M060	Plastic	White	Body - Keylock
M061	Plastic	Black	Body - Keylock
M062	Plastic	Transparent	Body - Cable jack
M063	Plastic + coating + adhesive	White with green coating	Body - Sticker on PCBoard
M064	Plastic	White	Body - Connector on PCBoard
M065	Plastic	White	Body - Connector
M071	Plastic + printing + adhesive	Transparent with multicolor printing	Grill Cover Label (Green)
M072	Plastic + printing + adhesive	Transparent with multicolor printing	Grill Cover Label (Blue)

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1. Organotin Compounds (TBT, TPT, TOT, TCyT, TPtT, DBT and DOT)
Test Method: Organic solvent extraction, GCMS
 Ref. to ISO 17353:2004

Testing Period: 15 Mar. 2011 - 23 Mar. 2011

Test Result:

			Test No.	T001	T002	T003
			Material No:	M002	M003	M004 + M005 + M006
Parameter		MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.	n.d.
Tripropyltin	TPtT	0.01	%	n.d.	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.	n.d.

			Test No.	T004	T005	T006
			Material No:	M007 + M008	M009 + M010	M013 + M014 + M015
Parameter		MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.	n.d.
Tripropyltin	TPtT	0.01	%	n.d.	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.	n.d.

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		Test No.	T007	T008	T009
		Material No:	M016 + M017 + M018	M019 + M020 + M021	M022 + M023 + M024
Parameter	MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.
Tripropyltin	TPrT	0.01	%	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.

		Test No.	T010	T011	T012
		Material No:	M025 + M026 + M027	M028 + M030 + M032	M029
Parameter	MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.
Tripropyltin	TPrT	0.01	%	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.

		Test No.	T013	T014	T015
		Material No:	M031	M033 + M035 + M037	M034
Parameter	MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.
Tripropyltin	TPrT	0.01	%	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.



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			Test No.	T016	T017	T018
			Material No:	M036	M038 + M046	M039 + M040 + M041
Parameter		MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.	n.d.
Tripropyltin	TPrT	0.01	%	n.d.	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.	n.d.

			Test No.	T019	T020	T021
			Material No:	M042 + M043	M044 + M045	M047 + M048 + M049
Parameter		MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.	n.d.
Tripropyltin	TPrT	0.01	%	n.d.	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.	n.d.

			Test No.	T022	T023	T024
			Material No:	M050	M051	M052
Parameter		MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.	n.d.
Tripropyltin	TPrT	0.01	%	n.d.	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.	n.d.



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			Test No.	T025	T026	T027
			Material No:	M053 + M055 + M056	M054	M057 + M059 + M060
Parameter		MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.	n.d.
Tripropyltin	TPrT	0.01	%	n.d.	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.	n.d.

			Test No.	T028	T029	T030
			Material No:	M058	M061 + M062	M063
Parameter		MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.	n.d.
Tripropyltin	TPrT	0.01	%	n.d.	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.	n.d.

			Test No.	T031	T032	T033
			Material No:	M064 + M065	M071	M072
Parameter		MDL	Unit	Result	Result	Result
Tributyltin	TBT	0.01	%	n.d.	n.d.	n.d.
Triphenyltin	TPT	0.01	%	n.d.	n.d.	n.d.
Tricyclohexyltin	TcyT	0.01	%	n.d.	n.d.	n.d.
Trioctyltin	TOT	0.01	%	n.d.	n.d.	n.d.
Tripropyltin	TPrT	0.01	%	n.d.	n.d.	n.d.
Sum of tri-substituted organotins		NA	%	n.d.	n.d.	n.d.
Dibutyltin	DBT	0.01	%	n.d.	n.d.	n.d.
Diocetyl tin	DOT	0.01	%	n.d.	n.d.	n.d.



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Abbreviation: n.d. = Not Detected (< MDL)
 MDL = Method Detection Limit
 NA = Not Applicable
 % = percentage

Remark:

*1 Single components with an amount of <0.01% were not considered in the calculation of the sum. In the case of all five tri-substituted organotins were not detected, the result is stated n.d.

*2 The assessment for tri-substituted organotins is based on the sum of TBT, TPT, TOT, TCyT and TPrT only.

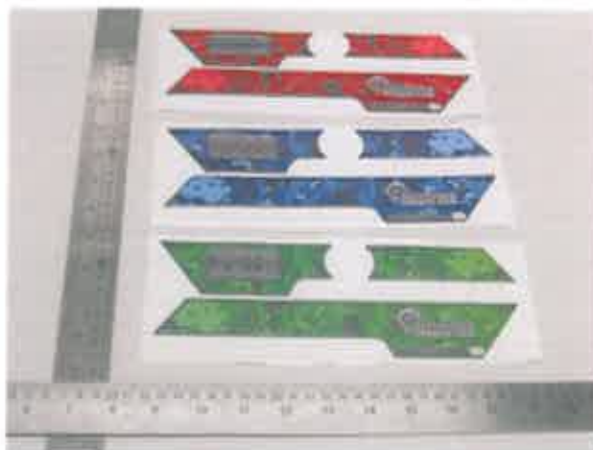
According to REACH regulation (EC) No. 1907/2006 and amendment no. 552/2009 Annex XVII Item 20 (formerly known as 2009/425/EC), organostannic compounds shall not be used or be placed on the market-

Type of organostannic compounds	Maximum Permissible Limit	Implementation date
Tri-substituted organostannic compounds, e.g. tributyltin (TBT) compounds and triphenyltin (TPT) compounds	0.1 % by weight of tin	1 July 2010
Dibutyltin (DBT) compounds in mixtures and articles for supply to the general public	0.1 % by weight of tin	1 January 2012 The below products will not be applicable until 1 January 2015: - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, - paints and coatings containing DBT compounds as catalysts when applied on articles, - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications, - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and façades
Diocetyl tin (DOT) compounds - textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings - childcare articles, - female hygiene products, - nappies, - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1 % by weight of tin	1 January 2012

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Sample photos:



- END -

