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WELLS FIREWORKS - GENERAL SAFE USE GUIDE

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(Wells products must not be supplied to or used by a member of the general public or any person under 18)

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Safety Distances

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T1 users Should only use T1 products and should abide by the minimum Safety Distance specified on each product. Always consider increasing this to allow for noise, airflow or unforeseen incidents, (Units falling over, performers moving, etc.).

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T2 users (Persons with Specialist Knowledge) This distance is for the Operator to calculate using experience and the applicable data given overleaf. This Distance should also take into account the products possible effect on the audience, performers, other staff, scenery, flammable objects, etc. and reasonable variations within batches.

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Test Firings and Noise Levels

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Always test samples to confirm suitability to the job and the venue. Test any 'new' products outdoors first from a safe distance before trying inside. For T2 users, use of appropriate witness screens may help to determine a products effect on surfaces within the venue. Always monitor noise levels, especially if using a product designed to have a report or concussive effect. These tests will allow an accurate Risk Assessment to be undertaken PRIOR to the event.

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Smoke, Light and Fumes

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Pyrotechnics produce varying amounts of all or some of the following:- Heat, Smoke, Fumes, Dust, Sparks, Flashes of Light, Noise and Concussion. Do not use in small or poorly ventilated venues as excessive inhalation may cause medical side effects and should always be avoided. If used in large well ventilated areas the smoke and fumes should not pose any problems. However should anyone complain of side effects from inhalation or suffer directly from excessive inhalation, remove them to a fresh air source and seek medical assistance.

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Spillage, Contamination and Disposal

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If a product bursts or leaks, warn others of the hazard and keep them clear. Remove all sources of ignition. Put on protective gloves and a dust mask, and gently sweep up the loose powder, composition and packing. Secure the waste in a well labelled plastic bag or container. Dispose of in accordance with local regulations.

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Physical Contact with Pyrotechnic composition

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If powder or composition from a Pyrotechnic contacts skin or eyes, wash the area freely with cold running water. In the case of inhalation remove the victim to fresh air. If composition is swallowed and the victim is still conscious then drink plenty of clean cold water (do NOT induce vomiting). In ALL cases seek medical assistance.

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Firing Pyrotechnics

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Always use and issue hearing protection as necessary. Always use a professional, isolated firing system. Ensure it can't be fired or left live whilst rigging. Avoid placing cables in locations where they may pick up stray EMF's. The igniters used in Wells products have a resistance of 1.0 Ω and require 1.25 A to fire. When calculating the necessary fire voltage always allow a generous margin to cover possible electrical losses in the firing circuit.

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Mis-fires and Failures

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In the unlikely event of a misfire or product failure always check the complete firing system and re-fire when safe to do so. If after this it is still felt the product is at fault it should be left alone for a minimum of 1 hour. Failed product should be repacked as it was delivered and returned to Wells Fireworks - (After arranging to do so with Wells).

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Storage and Transport

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The user must comply with the Countries Explosives Regulations. As a rule Pyrotechnics should be stored in a secure, cool, (not cold), dry place with an appropriate licence. No other hazardous material should be stored with them. Access to the Store should only be available to the operator and other approved persons. The products Hazard/UN Code is given overleaf. Pyrotechnics should be stored in their original packaging. If you repack pyrotechnics for transport or storage then they may no longer comply with EU packing and transportation regulations.

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Handling and Rigging

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Always handle Pyrotechnics carefully - They are not designed to withstand dropping, rough handling or violent vibrations. Avoid sharp edges or rough surfaces which may damage the outer case. Ensure the product is secured firmly. However avoid undue pressure or force as this will damage the product and may cause a malfunction. If damaged, do NOT use. The igniters used are sensitive to stray currents. Keep effects and cables away from high power emf's, stray currents, radio waves and Mobile phones. Avoid direct sources of ignition or intense heat sources. Do not modify these products in any way or use them other than intended. Protect from wet or humid conditions.

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If you have any further question, Please call us on +44 (0)1903 882366 during normal weekday office hours



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