

FS3

PRODUCT USE DATA SHEET

Generic Sheet for
Stage Flash
0589-T1-0382

A bright, normally white, flash with some smoke in a flash pot format. If a Sparkle or Audible effect has been added or the product is coloured it will be labelled as such.

CAD	ID N°: XI/5015/195/6	Serial N°: 108812	Title: Flash Pot - Large
CE	Reg: 0589-T1-0382	Category: T1 - Outdoor	Type: THEATRICAL FLASH
	Class/UN N°: 1.4G/0431	Batch N°: N/A	Max NEC: 25 (Grams/unit)

ONLY FOR USE BY PERSONS AGED 18 YEARS OR OVER

FS4 ***SAFETY FIRST***

- SC001 T1 users may only use these articles for theatrical purposes within Stage, film and television productions, as well as within music or show productions.
- sc002 All T1 users must abide by the stated Minimum Safety Distance on the product and given below.*
- sc004 Always test a sample of the product to be used to confirm suitability to the job and the venue.*
- sc018 Do not fire these products in an unsuitable confined space or an area with poor ventilation.*
- sc005 Typically T2 users should allow at least 1.5 times the Stated Directional Effect (or calculated Sound distance) as a safety margin when firing towards (or near) persons, scenery or flammable objects in the effects designed orientation.*
- SC006 These products produce a bright flash and localised heat. They can project hot sparks to a considerable distance. There will also be some smoke on discharge and, if so designed, a loud report or concussion.
- sc019 These products are designed to be fired straight upwards. If you wish to fire at any other angle, please contact Wells Fireworks for further advice.*
- sc041 These products are primarily designed for indoor use and only function correctly in still or near still air conditions - If used outdoors expect a loss of performance especially if fired in moving air.
- sc015 Do not fire directly underneath any persons, scenery or flammable objects.*
- SC036 Do not stick any form of covering over this product. To do so may dramatically change its performance or cause it to explode.
- SC031 This product has an easily damaged covering/lid. It is easily cut or torn and may be ignited by large sparks. Handle all pyrotechnics carefully and if damaged, do NOT use.
- SC033 Ensure the products are secured firmly, using suitable holders, fittings or containers as necessary. Always avoid undue force when rigging products as this may damage the units.
- SC029 Bridge Wire Resistance - 1.0Ω (Std. Deviation ± 0.09Ω). Max Test Current 40mA. Max No-Fire Current 300mA. Min Firing Current 1.0A. Recommended Nominal Firing Current 1.25A.
- SC046 * Please Call or Email Wells Fireworks for further details if you intend to use these effects in a way other than intended by the manufacturer.

FS24 ***Product Specific T2 Data for use by Persons With Specialist Knowledge***

Effect Code	CE Variant	A (m)	B		C (m)	D (m)	T (m)	T1 Safety Distances	
			dB	@m				Effect	Radial
* STVSNS00WHXLGE	XL (White)	3	103.2	10	0	0	1.5	4	2
*Example Product Shown - see specific Sheet for accurate data									

FS26 *Key - A: Effect distance. B: Sound Pressure level including the measuring distance. C: Hazardous debris distance.*
 FS27 *D: Information on incandescent particles returning to the level from which the device was fired. T: Radial effect distance*
 FS28 *T1 Safety Distances: These are the recommended minimum safe use distances for amateur use.*

sc047 * Wells Fireworks assumes no liability for the misuse of this product. It is up to the purchaser to ensure the safe use and suitability by Test Firings prior to the performance or public admittance.

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WELLS FIREWORKS - GENERAL SAFE USE GUIDE

FS2

(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.

FS10

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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Theatrical Flashes & Stage Smoke Puffs

XI and XL100 Stage Flashes and Smoke Puffs

CE Type	CE Category	CE name	Reg No	EU-type examination certificate
THEATRICAL FLASH	T1 - Outdoor	Stage Flash	0589-T1-0382	0589.PYR.3593/15

A bright, normally white, flash with some smoke in a flash pot format. If a Sparkle or Audible effect has been added or the product is coloured it will be labelled as such.

Wells Code	Description	Packed in	NEQ (g)	UN No/ Class	Igniter length (mm)
STVSNS00WHXLGE	Stage Flash - XL White	10	20	1.4G/0431	0
STVSNS00RDXLGE	Stage Flash - XL Red	10	20	1.4G/0431	300
STVSNS00GNXLGE	Stage Flash - XL Green	10	20	1.4G/0431	300
STVSNS00WHX100	Stage Flash - XL100 White	5	25	1.4G/0431	300
STVSW00WHXLGE	Stage Flash - XL White with Sparkle	10	15	1.4G/0431	300
STVSW00WHX100	Stage Flash - XL100 White with Sparkle	5	25	1.4G/0431	300
STVSWR00WHXLGE	Stage Flash - XL with Report	10	20	1.4G/0431	300
STVSWC00WHXLGE	Stage Flash - XL with Concussion	10	20	1.4G/0431	300
STVSWC00WHX100	Stage Flash - XL100 with Concussion	5	25	1.4G/0431	300
SCIEWR00ORXLGE	Cannon Muzzle Blast - XL	10	18	1.4G/0431	0
SCIEWR00ORX100	Cannon Muzzle Blast - XL100	5	30	1.4G/0431	0
XPVSCCIBNAXLRG	Stage Smoke Puff - XL	10	20	1.4G/0431	300
XPVSCCIBNAX100	Stage Smoke Puff - XL100	5	25	1.4G/0431	0

TECHNICAL PERFORMANCE SPECIFICATIONS		Effect Distance (A)			Radial Distance (T)			Sound Pressure (B)	@ (m) - (B)	Minimum Safety distance	Hazardous Debris (C)	Incandescent particles (D)	Unit NEC not exceeding	
Wells Code	Variant Name	Min (m)	Avg (m)	Max (m)	Min (m)	Avg (m)	Max (m)	(dB)	(m)	Direction (m)	Radial (m)	(m)	(m)	(g)
STVSNS00WHXLGE	XL (White)	2.5	2.8	3	1	1.3	1.5	103.2	10	4	2	0	0	25
STVSNS00RDXLGE	XL (Red)	2.5	2.8	3	1	1.3	1.5	103.2	10	4	2	0	0	25
STVSNS00GNXLGE	XL (Green)	2.5	2.8	3	1	1.3	1.5	103.2	10	4	2	0	0	25
STVSNS00WHX100	XL100 (White)	3.5	3.6	4	1	1.4	1.5	101	10	6	2	0	0	25
STVSW00WHXLGE	XL (Sparkle)	7.5	7.8	8	1.5	1.9	2	99.2	10	10	3	0	0	25
STVSW00WHX100	XL100 (Sparkle)	6	7	8	2	2	2	98.5	10	11	3	0	0	25
STVSWR00WHXLGE	XL (Report)	2	2	2	2	2	2	101.5	30	4	4	0	0	20

STVSWC00WHXLGE	XL (Concussion)	3.5	3.9	4	1	1.1	1.5	114.1	10	6	6	0	0	20
STVSWC00WHX100	XL100 (Concussion)	2	2	2	2	2	2	108.7	30	9	9	0	0	25
SCIEWR00ORXLGE	XL (Muzzle)	2.5	2.8	3	1	1.3	1.5	103.2	10	4	2	0	0	25
SCIEWR00ORX100	XL100 (Muzzle)	3.5	3.6	4	1	1.4	1.5	101	10	6	2	0	0	25
XPVSCCIBNAXLRG	XL (Puff)	1.5	1.5	1.5	1	1	1	104.8	10	2	2	0	0	20
XPVSCCIBNAX100	XL100 (Puff)	2	2	2	1	1	1	105	10	3	2	0	0	25



SAFETY DATA SHEET

Stage Flash (T1 Outdoor only)

SECTION 1 – PRODUCT DETAILS

1.1 Product identifier:

Product Name: Stage Flash.
CE Reg Number: 0589-T1-0382

1.2 Approved Uses:

Articles pyrotechnic used for theatrical purposes within stage, film and television productions, as well as within music or show productions.

1.3 Supplier:

Name: Wells Fireworks (Dartford) Ltd
Address: Home Farm
Wepham
West Sussex
BN18 9RA
England
Contact number: +44 (0)20 8646 2222
Email: info@wellsfireworks.co.uk

1.4 Emergency Contact:

Please Contact; Health and Safety Executive (HSE) Chemicals Regulation Directorate.
+44 (0)151 951 3317 (Only available during office hours)

SECTION 2 –HAZARDS & IDENTIFICATION

2.1 Classification of the substance or mixture

Physical Hazard: H204 - Fire or projection hazard.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms:



(Letter may be an S or G)

Signal word: PYROTECHNIC

2.3 Other hazards

There are no chronic effects from handling the product in an appropriate manner.

SECTION 3 – INFORMATION ON INGREDIENTS

3.1 Substances

Name	CAS No.	EC No.
Acaroid Resin	93164-80-8	298-861-7
Aluminium powder	7429-90-5	231-072-3
Barium Nitrate	10022-31-8	233-020-5
Graphite	7782-42-5	231-955-3
Magnesium powder	7439-54-4	231-104-6
Potassium Perchlorate	7778-47-7	231-912-9
PVC	009002-86-2	-
Shellac	9000-59-3	232-549-9
Sodium Oxalate	62-76-0	200-550-3
Strontium Carbonate	1633-05-2	216-643-7

List above covers all products within the Wells Fireworks Stage Flash range.

SECTION 4 – FIRST AID

4.1 Description of first aid measures:

Generally, in any case of accident or sickness featuring Pyrotechnics, always seek medical advice IMMEDIATELY.

Following the *medical effects* below it is advised *that*:

- *Inhalation* - Remove casualty to fresh air and keep warm and at rest.
- *Skin contact* - Wash immediately with soap and water
- *Eye contact* - Immediately flush with water
- *Ingestion* - If swallowed, rinse the mouth with plenty of water and spit out (only if the person is conscious) and obtain URGENT medical attention.

NOTE; in all cases, Self-protection of the first aider should always be paramount!

4.2 Most important symptoms and effects, both acute and delayed:

Irritation to the eyes and irritation to the skin.

4.3 Indication of any immediate medical attention and special treatment needed:

Obvious contact with hot materials or gas on operation of products.

Apply First aid, decontamination measures and treatment of symptoms.

SECTION 5 – FIREFIGHTING

5.1 Extinguishing media:

Do not attempt to extinguish any actively functioning product or a fire which contains live products with ANY form of extinguishing media. Evacuate area immediately and contact emergency services. Any resulting fires caused after the full functioning of a product may be tackled in the prescribed manner.

Suitable/Unsuitable extinguishing media: See above.

5.2 Special hazards arising:

Hazardous combustion products may be produced when functioning. Pyrotechnic devices can burn violently and the state of any fire may be dependent on composition, packaging and containment. See 5.1 above for special precautions.

5.3 Advice for firefighters:

- Exercise extreme caution.
- Ascertain extent of material involved BEFORE combatting fire.
- If unsure keep to a safe distance.
- It is recommended that all firefighters wear self-contained breathing apparatus and chemical protective clothing.

SECTION 6 – ACCIDENTAL RELEASE MEASURES SECTION

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Suitable personal protective equipment. Remove ignition sources.

6.1.2 For emergency responders:

Remove persons to safety. Isolate hazard area and deny entry. Ventilate closed spaces before entering.

6.2 Environmental precautions:

Prevent large spillages from entering surface water or drains.

6.3 Methods and material for containment and cleaning up:

Dispose of as special waste in compliance with local and national regulations.

6.4 Reference also sections 5, 8 & 13.

SECTION 7 – HANDLING AND STORAGE SECTION

7.1 Precautions for safe handling:

- Handle with caution.
- Prevent fires. No smoking and no naked flames.
- Avoid aerosol and dust generation. Do not tamper with the item.
- Do not eat, drink or smoke in work areas.
- Wash hands after handling products.

7.2 Conditions for safe storage, including any incompatibilities:

- Store in cool, dry place.
- Always store in original packaging with appropriate marking and labelling.
- Stores should be adequately secured and identified.

7.3 Specific end use(s):

The identified use for this product is detailed in section 1.2.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Workplace exposure limits.

8.2 Exposure controls:

8.2.1 Provide adequate ventilation.

8.2.2 PPE: Appropriate Safety goggles.

8.2.3: No specific Environmental exposure controls.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Solid tube containing pressed composition.

As this is essentially a sealed unit chemical properties are not applicable.

9.2 Other information:

No additional information relevant to safe use.

SECTION 10 – STABILITY AND REACTIVITY SECTION

10.1 Reactivity:

No specific data related to reactivity is available.

10.2 Chemical stability:

Stable under recommended conditions of storage and use.

10.3 Possibility of hazardous reactions:

No hazardous reaction when handled and stored in accordance with the provisions.

10.4 Conditions to avoid:

- High temperatures,
- Excessive shock or rough handling
- Static discharge,
- Vibrations or other physical stresses
- High localise EMF
- And any situations that might result in a hazardous situation.

10.5 Incompatible materials:

As an effectively sealed unit, incompatible materials are not applicable.

10.6 Hazardous decomposition products:

Decomposition will not occur during normal circumstances of storage, transport and handling.

Upon functioning various gases may be emitted, including oxides, during the planned decomposition of the product.

11 – TOXICOLOGICAL INFORMATION SECTION

11.1 Information on toxilological effects:

No material is exposed during normal circumstances of storage, transport and handling.

As this is a sealed unit this only applies to spillages.

May cause eye and skin irritation. Inhalation or ingestion may cause discomfort.

12 – ECOLOGICAL INFORMATION

12.1 Toxicity: Not classified as dangerous for the environment/aquatic toxicant.

12.2 Persistence and degradability: N/A

12.3 Bio-accumulative potential: N/A

12.4 Mobility in soil: N/A

12.5 Results of PBT and vPvB assessment: N/A

12.6 Other adverse effects: N/A

13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

No specific regulations apply to packaging or spent devices.

Unused devices should be either:

- Returned to the manufacturer,
- Functioned in a safe manner or
- Soaked in a vessel of water for 48 hours. (If soaked in water, review local and national requirements prior to disposal).

14 – TRANSPORT INFORMATION

14.1 UN number:

UN0431 or UN0432

14.2 UN proper shipping name:

Articles Pyrotechnic for Technical Purposes.

14.3 Transport hazard class(es):

1.4G (UN0431) or 1.4S (UN0432).

14.4 Packing group:

Packing Group II.

14.5 Environmental hazards:

None.

14.6 Special precautions for user:

No smoking or naked flames.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

N/A

15 – REGULATORY INFORMATION*/

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Explosives Regulations 2014 and all orders of council, HSG 36, Local Authorities and the Health and Safety Executive.

Pyrotechnic Articles European Directive 2013/29/EU.

15.2 Chemical Safety Assessment:

N/A

16 – OTHER INFORMATION

All Information for this Safety Data Sheet was obtained from sources which are considered reliable and technically accurate. Every effort has been made to ensure full disclosure of any product hazards, however some data is not available and is so stated.

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