

16th September 2019

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

1.1 Product identifier

Product Name: SIMULATION EFFECTS (Napalm, Shellburst, Giant Fireball, Goldstar, Mortar Hit, Thunderflash)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Articles pyrotechnic for technical purposes

1.3 Details of the Supplier of the Safety Data Sheet

Supplier: Le Maitre Ltd
Street/P.O. Box: 6 Forval Close
Postcode/City: CR4 4NE, Mitcham
Country: England
Telephone number: +44 (0)20 8646 2222
Email: info@lemaitreltd.com

1.4 Emergency telephone number

Please contact: +44 (0)151 951 3317 Health and Safety Executive (HSE) Chemicals Regulation Directorate
Other comments: Only available during office hours

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

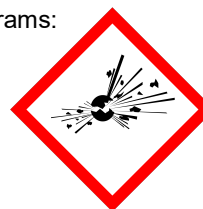
H204: Fire or projection hazard

2.2 Label elements

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

Hazard category: Division 1.4
 Signal word: Warning
 Hazard statement: H204 Fire or projection hazard
 Precautionary Statements Prevention: P210, P234
 Precautionary Statements Response: P370 + P372 + P380 + P373
 Precautionary Statements Storage: P401
 Precautionary Statements Disposal: P501

Hazard pictograms:



2.3 Other hazards

There are no chronic effects from handling the product appropriately
 When used in the correct manner, any fallout does not pose a risk to personal health.

SIMULATION EFFECTS

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Name	CAS No.	EC No.
Aluminium powder	7429-90-5	231-072-3
Charcoal	16291-96-6	240-383-3
Lycopodium powder	8023-70-9	282-002-3
Magnesium powder	7439-54-4	231-104-6
Naphthalene	91-20-3	202-049-5
Potassium Nitrate	7757-79-1	231-818-8
Potassium Perchlorate	7778-47-7	231-912-9
Starch	9005-25-8	232-679
Strontium Oxalate	814-95-9	212-415-6
Sulphur	7704-34-9	231-722-6

List above covers all products within the Simulation effect families

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

General notes: In the case of accident or sickness, seek medical advice immediately.

Following inhalation: Remove casualty to fresh air and keep warm and at rest.

Following skin contact: Wash immediately with soap and water

Following eye contact: Immediately flush with water

Following ingestion: If accidentally swallowed, rinse the mouth with plenty of water (only if the person is conscious) and obtain medical attention

Self protection of the first aider: Pay attention to self protection!

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

First aid, decontamination, treatment of symptoms

SECTION 5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: If there is a small flame persisting from the effect itself (or from the surrounding area) this can be extinguished with a dry powder or Carbon Dioxide Fire Extinguisher if trained to do so.

For larger fires do not attempt to extinguish any fire unless specifically trained to do so. Evacuate area and contact emergency services

Unsuitable extinguishing media: N/A

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products may be produced.

Pyrotechnic devices can burn violently and the state of the fire will be dependent on composition, packaging and containment.

5.3 Advice for firefighters

Exercise extreme caution. Special protective equipment for firefighters: wear self-contained breathing apparatus and chemical protective clothing

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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 to other sections

See sections 8 and 13

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures: Handle with caution.

Measures to prevent fire: No smoking and no naked flames.

Measures to prevent aerosol and dust generation: Do not tamper with the item.

Advice on general occupational hygiene: Do not eat, drink or smoke in work areas. Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Store in cool, dry place.

Requirements for storage rooms and vessels: 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.

8.1

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control

parameters

Workplace exposure limits.

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Provide adequate ventilation.

8.2.2 Personal protection equipment: Appropriate Safety goggles.

8.2.3 Environmental exposure controls: No specific measures.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance: Solid sealed tube

As this is a sealed unit chemical properties are not applicable

9.2 Other information

No additional information relevant to safe use.

SECTION 10 – STABILITY AND REACTIVITY**10.1 Reactivity**

No specific data related to reactivity 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 according to provisions.

10.4 Conditions to avoid

Avoid high temperatures, shock, static discharge, vibrations or other physical stresses that might result in a hazardous situation.

10.5 Incompatible materials

As this is a sealed unit incompatible materials are not applicable.

10.6 Hazardous decomposition products

Decomposition does not occur during normal circumstances of storage, transport and handling. Upon functioning various gases may be emitted including oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION**11.1 Information on toxilological effects**

As this is a sealed unit this only applies to spillages.
May cause eye and skin irritation. Inhalation or ingestion may cause discomfort.

SECTION 12 – ECOLOGICAL INFORMATION**12.1 Toxicity**

Not classified as dangerous for the environment/aquatic toxicant

12.2 Persistence and degradability N/A**12.3 Bioaccumulative 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**SECTION 13 – DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

No specific regulations apply to packagings or spent devices.

Unused devices should be 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.

SECTION 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

N/A

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

SECTION 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

SECTION 16 – OTHER INFORMATION

Information for this safety data sheet was obtained from sources considered technically accurate and reliable. Whilst every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of, or reliance on, any information contained in this form.



20th January 2019

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

1.1 Product identifier

Product Name: GERBS, JETS, CASCADES, WATERFALLS & ROCKETS

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Articles pyrotechnic for technical purposes

1.3 Details of the Supplier of the Safety Data Sheet

Supplier: Le Maitre Ltd
Street/P.O. Box: 6 Forval Close
Postcode/City: CR4 4NE, Mitcham
Country: England
Telephone number: +44 (0)20 8646 2222
Email: info@lemaitreltd.com

1.4 Emergency telephone number

Please contact: +44 (0)151 951 3317 Health and Safety Executive (HSE) Chemicals Regulation Directorate
Other comments: Only available during office hours

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

H204: Fire or projection hazard

2.2 Label elements

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

Hazard category: Division 1.4
Signal word: Warning
Hazard statement: H204 Fire or projection hazard
Precautionary Statements Prevention: P210, P234
Precautionary Statements Response: P370 + P372 + P380 + P373
Precautionary Statements Storage: P401
Precautionary Statements Disposal: P501

Hazard pictograms:



2.3 Other hazards

There are no chronic effects from handling the product appropriately.
When used in the correct manner, any fallout does not pose a risk to personal health.

SECTION 3 – COMPOSITION / 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
Antimony Sulphide	1345-04-6	215-713-4
Barium Carbonate	513-77-9	208-167-3
Charcoal	16291-96-6	240-383-3
Dextrin	9004-53-9	232-675-4
Graphite	7782-42-5	231-955-3
Iron	7439-89-6	231-096-4
Magnesium powder	7439-54-4	231-104-6
Potassium Benzoate	582-25-2	209-481-3
Sodium Bicarbonate	144-58-8	205-633-8
Potassium Nitrate	7757-79-1	231-818-8
Potassium Perchlorate	7778-47-7	231-912-9
Talc	14087-96-6	238-877-9
Sulphur	7704-34-9	231-722-6
Titanium powder	7440-32-6	231-142-3

List above covers all products within the Gerb, Jet, Cascade, Waterfall & Rocket families

SECTION 4 – FIRST AID MEASURES**4.1 Description of first aid measures**

General notes: In the case of accident or sickness, seek medical advice immediately.

Following inhalation: Remove casualty to fresh air and keep warm and at rest.

Following skin contact: Wash immediately with soap and water

Following eye contact: Immediately flush with water

Following ingestion: If accidentally swallowed, rinse the mouth with plenty of water (only if the person is conscious) and obtain medical attention

Self protection of the first aider: Pay attention to self protection!

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

First aid, decontamination, treatment of symptoms

SECTION 5 – FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media: If there is a small flame persisting from the effect itself (or from the surrounding area) this can be extinguished with a dry powder or Carbon Dioxide Fire Extinguisher if trained to do so.

For larger fires do not attempt to extinguish any fire unless specifically trained to do so. Evacuate area and contact emergency services

Unsuitable extinguishing media: N/A

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products may be produced.

Pyrotechnic devices can burn violently and the state of the fire will be dependent on composition, packaging and containment.

5.3 Advice for firefighters

Exercise extreme caution. Special protective equipment for firefighters: wear self-contained breathing apparatus and chemical protective clothing

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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 to other sections

See sections 8 and 13

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures: Handle with caution.

Measures to prevent fire: No smoking and no naked flames.

Measures to prevent aerosol and dust generation: Do not tamper with the item.

Advice on general occupational hygiene: Do not eat, drink or smoke in work areas. Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Store in cool, dry place.

Requirements for storage rooms and vessels: 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 Appropriate engineering controls: Provide adequate ventilation.

8.2.2 Personal protection equipment: Appropriate Safety goggles.

8.2.3 Environmental exposure controls: No specific measures.

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**10.1 Reactivity**

No specific data related to reactivity 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 according to provisions.

10.4 Conditions to avoid

Avoid high temperatures, shock, static discharge, vibrations or other physical stresses that might result in a hazardous situation.

10.5 Incompatible materials

As this is a sealed unit incompatible materials are not applicable.

10.6 Hazardous decomposition products

Decomposition does not occur during normal circumstances of storage, transport and handling. Upon functioning various gases may be emitted including oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

As this is a sealed unit this only applies to spillages. May cause eye and skin irritation. Inhalation or ingestion may cause discomfort.

SECTION 12 – ECOLOGICAL INFORMATION**12.1 Toxicity**

Not classified as dangerous for the environment/aquatic toxicant

12.2 Persistence and degradability N/A

12.3 Bioaccumulative 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

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

No specific regulations apply to packagings or spent devices.

Unused devices should be 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.

SECTION 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

N/A

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

SECTION 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

SECTION 16 – OTHER INFORMATION

Information for this safety data sheet was obtained from sources considered technically accurate and reliable. Whilst every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of, or reliance on, any information contained in this form.

16th September 2019

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

1.1 Product identifier

Product Name: FLAMES

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Articles pyrotechnic for technical purposes
For indoor use

1.3 Details of the Supplier of the Safety Data Sheet

Supplier: Le Maitre Ltd
Street/P.O. Box: 6 Forval Close
Postcode/City: CR4 4NE, Mitcham
Country: England
Telephone number: +44 (0)20 8646 2222
Email: info@lemaitretd.com

1.4 Emergency telephone number

Please contact: +44 (0)151 951 3317 Health and Safety Executive (HSE) Chemicals Regulation Directorate
Other comments: Only available during office hours

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

H204: Fire or projection hazard

2.2 Label elements

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

Hazard category: Division 1.4
Signal word: Warning
Hazard statement: H204 Fire or projection hazard
Precautionary Statements Prevention: P210, P234
Precautionary Statements Response: P370 + P372 + P380 + P373
Precautionary Statements Storage: P401
Precautionary Statements Disposal: P501

Hazard pictograms:



2.3 Other hazards

There are no chronic effects from handling the product appropriately.
When used in the correct manner, any fallout does not pose a risk to personal health.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Name	CAS No.	EC No.
Ammonium Perchlorate	7798-98-9	232-235-1
Diphenylamine	122-39-4	204-539-4
Iron Oxide	1309-37-1	215-168-2
Nitrocellulose	9004-70-0	603-037-0
Nitroguanadine	556-88-7	209-143-5
Titanium Powder	7440-32-6	231-142-3
Barium Nitrate	10022-31-8	233-020-5
Copper Carbonate	1184-64-1	214-671-4
Sodium Nitrate	7631-99-4	231-554-3
Strontium Nitrate	10042-76-9	233-131-9

List above covers all products within the Flame family

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

General notes: In the case of accident or sickness, seek medical advice immediately.

Following inhalation: Remove casualty to fresh air and keep warm and at rest.

Following skin contact: Wash immediately with soap and water

Following eye contact: Immediately flush with water

Following ingestion: If accidentally swallowed, rinse the mouth with plenty of water (only if the person is conscious) and obtain medical attention

Self protection of the first aider: Pay attention to self protection!

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

First aid, decontamination, treatment of symptoms

SECTION 5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: If there is a small flame persisting from the effect itself (or from the surrounding area) this can be extinguished with a dry powder or Carbon Dioxide Fire Extinguisher if trained to do so.

For larger fires do not attempt to extinguish any fire unless specifically trained to do so. Evacuate area and contact emergency services

Unsuitable extinguishing media: N/A

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products may be produced.

Pyrotechnic devices can burn violently and the state of the fire will be dependent on composition, packaging and containment.

5.3 Advice for firefighters

Exercise extreme caution. Special protective equipment for firefighters: wear self-contained breathing apparatus and chemical protective clothing

SECTION 6 – ACCIDENTAL RELEASE MEASURES**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 to other sections

See sections 8 and 13

SECTION 7 – HANDLING AND STORAGE**7.1 Precautions for safe handling**

Protective measures: Handle with caution.

Measures to prevent fire: No smoking and no naked flames.

Measures to prevent aerosol and dust generation: Do not tamper with the item.

Advice on general occupational hygiene: Do not eat, drink or smoke in work areas. Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Store in cool, dry place.

Requirements for storage rooms and vessels: 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 Appropriate engineering controls: Provide adequate ventilation.

8.2.2 Personal protection equipment: No specific measures.

8.2.3 Environmental exposure controls: No specific measures.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance: Solid tube containing loose composition

9.2 Other information

No additional information relevant to safe use.

SECTION 10 – STABILITY AND REACTIVITY**10.1 Reactivity**

No specific data related to reactivity 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 according to provisions.

10.4 Conditions to avoid

Avoid high temperatures, shock, static discharge, vibrations or other physical stresses that might result in a hazardous situation.

10.5 Incompatible materials

As this is a sealed unit incompatible materials are not applicable.

10.6 Hazardous decomposition products

Decomposition does not occur during normal circumstances of storage, transport and handling. Upon functioning various gases may be emitted including oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

As this is a sealed unit this only applies to spillages.
May cause eye and skin irritation. Inhalation or ingestion may cause discomfort.

SECTION 12 – ECOLOGICAL INFORMATION**12.1 Toxicity**

Not classified as dangerous for the environment/aquatic toxicant

12.2 Persistence and degradability N/A**12.3 Bioaccumulative 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

SECTION 13 – DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

No specific regulations apply to packagings or spent devices.

Unused devices should be 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.

SECTION 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

N/A

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

SECTION 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

SECTION 16 – OTHER INFORMATION

Information for this safety data sheet was obtained from sources considered technically accurate and reliable. Whilst every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of, or reliance on, any information contained in this form.

Bedienungsanleitung / Gebrauchsanweisung

Pyrotechnische Gegenstände für Bühne und Theater der Kategorie T1

PYROTECHNIK- KOMBINATION 20ft , color Tracer Comet AF – 20' color, Ten Shot x 10sec



0589-T1-0069

Hersteller Bezeichnung: Tracer Comet AF – 20' color Ten Shot x10sec Registriernummer: 0589-T1-0069 Kategorie : T1 EU- Baumusterprüfbescheinigung : 0589.PYR.2798/11	Beschreibung und Hauptwirkung : Die Erzeugung des Effekts erfolgt ohne Verzögerung nach der Zündung mit einem Geräusch /Knall. Der einzelne pyrotechnische Stern wird farbig brennend , mit oder ohne Schweiß , schnell ausgestoßen. Es werden nach der Zündung 10 Kometen innerhalb 10 Sekunden ausgestoßen. Die jeweilige Farbe mit und ohne Schweiß ist auf dem Etikett des pyrotechnischen Gegenstands angegeben.
Technische Daten Pyrotechnischer Gegenstand : NEM: ca.20 g Breite: ca.48mm Höhe : ca.29mm Länge :ca.300mm mittlere Effekthöhe: 6m mittlere radiale Effektbreite : 0,5m Schalldruckpegel max. bei 8m : 105,0db (Almax) Maximale Wurfweite von brennendem und glimmendem Material : 0m Maximal Wurfweite von gefährlichen Reststücken : 0m	Technische Daten Anzünder : Art des Brückenzünders: A NEM:0,005 g Art des Brückenzünders : A Maximaler Prüfstrom: 0,025 A Maximaler Zündstrom : 0,5 A
Lagerung: Trocken und kühl lagern. Vor Nässe schützen Lagerung laut Spreng G beachten! Lagergruppe: 1.4 Verträglichkeitsgruppe: G Transportklassifizierung : 1.4 G Name und UN-Nr.:UN0431, PYROTECHNISCHE GEGENSTÄNDE	Versager und Entsorgung: Versager, defekte Artikel und Artikel die mit Wasser in Kontakt geraten sind nicht wieder verwenden. Entsorgen/ Vernichten entsprechend den nationalen Entsorgungsvorschriften oder Rückgabe an den Hersteller, Händler oder Importeur.

Hinweise zur Sicherem Handhabung :

Der Mindestsicherheitsabstand in Richtung des Effekts : 9m
Der radiale Mindestsicherheitsabstand: 2m

1. **Nur an Stromlose Zündkabel anschließen.** Die Kabelverbindung zum Zündsystem nur herstellen wenn das Zündgerät stromlos und durch den Schlüsselsicherheitsschalter ausgeschaltet ist und der Schlüssel sich im Besitz des Anwenders befindet.
2. **Um ein Umfallen zu verhindern ist der Gegenstand für die Verwendung zu befestigen.** Der Gegenstand sollte auf mindestens schwer entflammbarem Material befestigt werden.
3. Während der Handhabung absolutes **Rauchverbot und kein offenes Licht oder Feuer** am und in der Nähe des Abbrennplatzes.
4. Den pyrotechnischen Gegenstand nur zünden, wenn ungehinderte Sicht auf den Abbrennplatz gegeben ist und die Sicherheitsanordnungen eingehalten werden.
5. Zur Verwendung Sicherheitsmaßnahmen treffen (z.B. Gefahrenbereich absperren, Bereitstellung von Feuerlöschgeräten, Erste Hilfe gewährleisten, Kennzeichnung des Bereichs mit Rauchverbotsschildern etc.)
6. Die Gegenstände dürfen nur für technische Zwecke im Rahmen von Bühnen-, Film - und Fotoproduktionen sowie Musik- und Showveranstaltungen verwendet werden.
7. Mindestalter entsprechend der Richtlinie 2013/29/EU bzw. den nationalen Vorschriften.
Für Deutschland gilt: **Abgabe an Personen unter 18 Jahren verboten.**
8. Der Vertrieb und das Überlassen dieser Gegenstände ist nur in ungeöffneter Originalverpackung erlaubt.
9. Nicht in der Nähe von Personen oder feuergefährdeten Objekten verwenden.
10. **1.SprengV , Abschnitt V, §20 beachten ! und /oder BAM Leitfaden „Verwendung von T1- Gegenständen“ beachten!**
11. **Vorschriften beachten!** (z.B.1.SprengV; VstättVO; VBG C1; BGI 812, SP25,1/4), Gefahrenanalyse erstellen.
12. Erprobung und Verwendung sind nur mit Genehmigung der Zuständigen Behörden zulässig.
Genehmigung der Sicherheitsorgane einholen
13. Besondere Vorschriften bei der Verwendung in Versammlungsstätten beachten.
14. Wirkung der örtlichen Brandmeldeanlage in den Räumen beachten, Schutzabstände mit dem Sicherheitsbeauftragten festlegen.

Instruction/Manual

Theatrical pyrotechnic articles of category T1

PYROTECHNIC – COMBINATION – COMBINATION 20ft, COLOR Tracer Comet – 20' Color, 10 Shot x 10 Sec



0589-T1-0069

Product name: Tracer Comet AF – 20' Color 10 Shot x 10 sec Registration number: 0589-T1-0069 Category: T1 EC Type-Examination Certificate no. : 0589.PYR.2798/11	Description of effect: The effect is generated without delay after ignition with a noise / bang. The single pyrotechnic star is colored burning, with or without tail, quickly ejected. After the ignition, 10 comets are ejected within 10 seconds. The respective color with and without tail is indicated on the label of the pyrotechnic article.
Technical data: NEQ: approx. 20g Width: approx. 48mm Height: approx. 29mm Length: approx. 300mm Mid. effect height: 6m Mid. radial effect width: 0,5m Soundlevel max. at 8m: 105,0db (Almax) Max. distance of burning or incandescent material: 0m Max. distance of hazardous debris : 0m	Technical data igniter/match : Type of Bridge wire igniter: A NEQ: 0,005 g Max. Test current: 0,025A Minimum firing current : 0,5A
Storage: Dry and cool. Protect from moisture. Store according to national explosive law Division: 1.4 compatibility group: G Transport classification : 1.4 G Name and UN-no.: UN0431, ARTICLES PYROTECNIC	Failure and defect items and disposal: Don't use failure, defect articles or wet articles. Disposal according to national provisions or return to manufacturer

Instruction for safe handling:

Safety distance direction of Effect: 9m
Safety distance radial: 2m

1. **Connect only to currentless firing cables and ignition device.** Connect cable only to currentless ignition systems and make sure the device is switched off and the safety key must be in possession of the responsible users.
2. **To prevent it from falling over, fix the object for use.** The item should be mounted on at least flame retardant material.
3. During use, absolute **no smoking and no open light or fire** at and near the burning-off place.
4. Only ignite the pyrotechnic article if there is an unobstructed view of the burning site and the safety instructions are complied with.
5. Take precautionary measures (such as shutting off danger areas, providing fire extinguishers, providing first aid, marking the area with no smoking signs, etc.).
6. The items shall be used only for technical purposes within stage, film and television productions, as well as within music and show productions.
7. Minimum age limits according to Directive 2013/29/EU or national provisions. For Germany applies: **Hand-over to persons under the age of 18 years prohibited.**
8. The distribution and disposition of the articles only within unopened original packaging.
9. Do not use near persons or fire-endangered objects.
10. **Pay attention to national and local guidelines and laws**
11. **Observe regulations!** (eg in Germany 1.SprengV, VstättVO, VBG C1, BGI 812, SP25,1 / 4), create hazard analysis.
12. Testing and use are permitted only with the approval of the competent authorities. Obtain approval of the security forces.
13. Please note special regulations for use in location /venue.
14. Note the effect of the local fire alarm system in the rooms, determine the safety distances with the safety officer.



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Bedienungsanleitung / Gebrauchsanweisung

Pyrotechnische Gegenstände für Bühne und Theater der Kategorie T1

PYROTECHNIK- 8 SCHUSS FEUERTOPFKOMBINATION (25ft)

Mine AF - Multi Shot 8xSec 25' , color



0589-T1-0125

Hersteller Bezeichnung: Mine AF – Multi Shot 8x X Sec 25' color Registriernummer: 0589-T1-0125 Kategorie : T1 EU- Baumusterprüfbescheinigung : 0589.PYR.3844/12	Beschreibung und Hauptwirkung : Die Erzeugung des Effekts erfolgt ohne Verzögerung nach der Zündung mit einem Geräusch /Knall. Die pyrotechnischen Sterne werden farbig brennend ausgestoßen und erzeugen einen gestreuten optischen (mit und ohne akustischem) Effekt. Dies erfolgt nach der Zündung 8x innerhalb der angegeben Zeit (X) Die jeweilige Farbe mit und ohne Schweiß sowie die Dauer in Sekunden ist auf dem Etikett des pyrotechnischen Gegenstands angegeben.
Technische Daten Pyrotechnischer Gegenstand : NEM: ca.64 g Außendurchmesser je Rohr: ca.34mm Innendurchmesser je Rohr: ca.29mm Breite: ca.145mm, Länge:ca.145mm, Höhe: ca.160mm mittlere Effekthöhe: 8,2m mittlere radiale Effektbreite : 3,1m Schalldruckpegel max. bei 8m : 94,3db (Almax) Maximale Wurfweite von brennendem und glimmendem Material : 0m Maximal Wurfweite von gefährlichen Reststücken : 0m	Technische Daten Anzünder : Art des Brückenzünders: A NEM:0,005 g Art des Brückenzünders : A Maximaler Prüfstrom: 0,025 A Maximaler Zündstrom : 0,5 A
Lagerung: Trocken und kühl lagern. Vor Nässe schützen Lagerung laut Spreng G beachten! Lagergruppe: 1.4 Verträglichkeitsgruppe: G Transportklassifizierung : 1.4 G Name und UN-Nr.:UN0431, PYROTECHNISCHE GEGENSTÄNDE	Versager und Entsorgung: Versager, defekte Artikel und Artikel die mit Wasser in Kontakt geraten sind nicht wieder verwenden. Entsorgen/ Vernichten entsprechend den nationalen Entsorgungsvorschriften oder Rückgabe an den Hersteller, Händler oder Importeur.

Hinweise zur Sicherem Handhabung :

**Der Mindestsicherheitsabstand in Richtung des Effekts :
12m Der radiale Mindestsicherheitsabstand: 4m**

1. **Nur an Stromlose Zündkabel anschließen.** Die Kabelverbindung zum Zündsystem nur herstellen wenn das Zündgerät stromlos und durch den Schlüsselsicherheitsschalter ausgeschaltet ist und der Schlüssel sich im Besitz des Anwenders befindet.
2. **Um ein Umfallen zu verhindern ist der Gegenstand für die Verwendung zu befestigen.** Der Gegenstand sollte auf mindestens schwer entflammbarem Material befestigt werden.
3. Während der Handhabung absolutes **Rauchverbot und kein offenes Licht oder Feuer** am und in der Nähe des Abbrennplatzes.
4. Den pyrotechnischen Gegenstand nur zünden, wenn ungehinderte Sicht auf den Abbrennplatz gegeben ist und die Sicherheitsanordnungen eingehalten werden.
5. Zur Verwendung Sicherheitsmaßnahmen treffen (z.B. Gefahrenbereich absperren, Bereitstellung von Feuerlöschgeräten, Erste Hilfe gewährleisten, Kennzeichnung des Bereichs mit Rauchverbotsschildern etc.)
6. Die Gegenstände dürfen nur für technische Zwecke im Rahmen von Bühnen-, Film - und Fotoproduktionen sowie Musik- und Showveranstaltungen verwendet werden.
7. Mindestalter entsprechend der Richtlinie 2013/29/EU bzw. den nationalen Vorschriften.
Für Deutschland gilt: **Abgabe an Personen unter 18 Jahren verboten.**
8. Der Vertrieb und das Überlassen dieser Gegenstände ist nur in ungeöffneter Originalverpackung erlaubt.
9. Nicht in der Nähe von Personen oder feuergefährdeten Objekten verwenden.
10. **1.SprengV , Abschnitt V, §20 Abs.(3*) beachten ! und /oder BAM Leitfaden „Verwendung von T1- Gegenständen“ beachten!**
11. **Vorschriften beachten!** (z.B.1.SprengV; VstättVO; VBG C1; BGI 812, SP25,1/4), Gefahrenanalyse erstellen.
12. Erprobung und Verwendung sind nur mit Genehmigung der Zuständigen Behörden zulässig.Genehmigung der Sicherheitsorgane einholen
13. Besondere Vorschriften bei der Verwendung in Versammlungsstätten beachten.
14. Wirkung der örtlichen Brandmeldeanlage in den Räumen beachten, Schutzabstände mit dem Sicherheitsbeauftragten festlegen.

*Ein Erlaubnisinhaber nach § 7 oder § 27 des Sprengstoffgesetzes oder eine verantwortliche Person nach § 20 des Sprengstoffgesetzes mit der Befähigung zum Abbrennen pyrotechnischer Gegenstände für Bühne und Theater der Kategorie T2 darf pyrotechnische Gegenstände, die als pyrotechnischer Gegenstand für Bühne und Theater der Kategorie T1 oder als pyrotechnischer Gegenstand für Bühne und Theater der Kategorie T1 mit der Angabe „nur zur Verwendung im Freien“ gekennzeichnet sind, in einer von der Kennzeichnung oder der Gebrauchsanleitung abweichenden Art und Weise verwenden, wenn er dabei die mit diesem Gebrauch verbundenen Gefahren gebührend berücksichtigt.

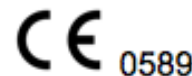


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Instruction/Manual

Theatrical pyrotechnic articles of category T1

PYROTECHNIC – COMBINATION – 8 SHOT MINE COMBINATION 25ft Mine AF – Multi Shot 8 x XSec 25', Color



0589-T1-0125

Product name: Mine AF – Multi Shot 8 x XSec 25' Color Registration number: 0589-T1-0125 Category: T1 EC Type-Examination Certificate no. : 0589.PYR.3844/12	Description of effect: The effect is generated without delay after ignition with a noise / bang. The pyrotechnic stars are emitted in color burning and produce a scattered optical (with and without acoustic) effect. This is done after ignition 8 times within the specified time (X) The respective color with and without tail as well as the duration in seconds is indicated on the label of the pyrotechnic article.
Technical data: NEQ: approx. 64g Outer diameter each tube: approx. 34mm Inner diameter each tube: approx. 29mm Width: approx. 245mm Length: approx. 145mm Height: approx. 160mm Mid. effect height: 8,2m Mid. radial effect width: 3,1m Soundlevel max. at 8m: 94,3dB (AImax) Max. Distance of burning or incandescent material: 0m Max. Distance of hazardous debris : 0m	Technical data igniter/match: Type of bridge wire igniter: A NEQ: 0,005 g Max. Test current: 0,025A Minimum firing current : 0,5A
Storage: Dry and cool. Protect from moisture. Store according to national explosive law Division: 1.4 Compatibility group: G Transport classification : 1.4 G Name and UN-No.: UN0431, ARTICLES PYROTECHNIC	Failure and defect items and Disposal: Don't use failure, defect articles or wet articles. Disposal according to national provisions or return to manufacturer

Instruction for safe handling:

Safety distance direction of Effect:
12m Safety distance radial: 4m

1. **Connect only to currentless firing cables and ignition device.** Connect cable only to currentless ignition systems and make sure the device is switched off and the safety key must be in possession of the responsible users.
2. **To prevent it from falling over, fix the object for use.** The item should be mounted on at least flame retardant material.
3. During use, absolute **no smoking and no open light or fire** at and near the burning-off place.
4. Only ignite the pyrotechnic article if there is an unobstructed view of the burning site and the safety instructions are complied with.
5. Take precautionary measures (such as shutting off danger areas, providing fire extinguishers, providing first aid, marking the area with no smoking signs, etc.).
6. The items shall be used only for technical purposes within stage, film and television productions, as well as within music and show productions.
7. Minimum age limits according to Directive 2013/29/EU or national provisions. For Germany applies: **Hand-over to persons under the age of 18 years prohibited.**
8. The distribution and disposition of the articles only within unopened original packaging.
9. Do not use near persons or fire-endangered objects.
10. **Pay attention to national and local guidelines and laws**
11. **Observe regulations!** (eg in Germany 1.SprengV, VstättVO, VBG C1, BGI 812, SP25,1 / 4), create hazard analysis.
12. Testing and use are permitted only with the approval of the competent authorities. Obtain approval of the security forces.
13. Observe special regulations for use in location /venue.
14. Observe the effect of the local fire alarm system in the rooms, determine the safety distances with the safety officer.

*NOTE: A person with specialist knowledge can handle and/or use articles labelled T1 or T1 'for outdoor use only' in a different manner to that prescribed on the label or within the instructions for use, provided that they have taken due consideration of the hazards and risks that any deviations they make might have. . A person with specialist knowledge is expected to have the knowledge to make use of T1 products in a different manner to those prescribed on the label or the instructions.



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