

MAD BOMBER FIREWORKS PRODUCTIONS
KINGSBURY INDUSTRIAL PARK 3999 E HUPP RD R-3-1 LAPORTE, IN 46350
PHONE (219) 393-5051 Toll Free (877) MAD-BOMB FAX (219)393-3177

Mad Bomber Fireworks is in its thirty third year of producing professional fireworks displays. In the beginning we quickly earned the reputation as someone who catered to smaller customers that other fireworks companies would dictate terms to. We would not lose customers once we had them. It was always going above and beyond the call of duty that we were able to compete with the big family companies that dominated the fireworks industry and had the benefit of generations of loyal customers. We approached growth cautiously while not losing sight of what had put us above the crowd for our clients. Today we produce around 500 displays a year throughout the Midwest.

We produce traditional, electric fired, choreographed to music, computer fired, indoor and close proximity displays. We have eight full time employees. Summer have another ten to twelve college students who work. Near Forth of July we again ramp up for our displays with 400-500 workers producing displays throughout the Midwest.

Andrew James, President. Started Mad Bomber Fireworks in 1991. He started the company do to his love for fireworks. He has produced thousands of displays over the years. He has grown Mad Bomber Fireworks into the premiere display company in the Midwest.

Randy McCasland, Director of Operations. He had his start working with his dad on displays at a young age. He has been lead on well over a thousand displays throughout fourteen states. Randy has designed, produced and worked on displays for professional baseball, professional basketball, concerts, towns, cities, festivals, and special events.

Randy will be the contact person for any qeustions concerning contract negotiations and display design. He will produce the sound track and choreography of fireworks to the music. He will make sure all necessary permit paperwork is turned in and permits are approved.

There will be one of our experience Illinois licensed operators in charge of display the day of the show. They will have a minimum of five years experience and has the knowledge to produce a pyro-musical display. They will follow all safety procedures and understand all products. They will work with the Village and Fire Department to give the people of Orland the very best in pyrotechnic entertainment.

All assistants will be registered with the State Fire Marshal's office.

Mad Bomber Fireworks understanding of said "Scope of Work" is as follows: to provide a high-quality pyro-musical display with creativity and variety at said location for the maximum enjoyment for the spectators of The Village of Orland Park. The total proposed contract price is \$50,000.00 per year for three years.

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ORLAND PARK IL

PROPOSAL

JULY 4, 2024

MAD BOMBER FIREWORKS PRODUCTIONS IS PLEASED TO PRESENT FOR YOUR CONSIDERATION THIS EXCEPTIONAL PROPOSAL FOR A SPECTACULAR FIREWORKS SHOW TO BE PRESENTED FOR INDEPENDENCE DAY.

FIREWORKS SHOW (Pyro Musical)	\$50,000.00
PROFESSIONAL PRESENTATION	INCLUDED
\$10,000,000 LIABILITY INSURANCE	INCLUDED
POST DISPLAY CLEANUP	INCLUDED
EARNEST MONEY DEPOSIT	<u>\$WAIVED</u>
BALANCE DUE AFTER PRESENTATION	\$50,000.00

Mad Bomber Fireworks will also supply the following:

1. We will secure all permits.
2. CDL driver with a Hazmat endorsement.
3. Registered with the USDOT to haul hazmat. (mandatory by Federal Law)
4. Carry \$5,000,000.00 auto insurance to haul hazmat. (mandatory by Federal Law)
5. Haul hazmat material in a properly placarded vehicle.

Randall McCasland

Randy McCasland, Director of Operations

Orland Park IL

Opening

- 36** 3" Assorted Color Chrysanthemums and Peonies
- 8** 4" Variegated Chrysanthemums
- 5** 5" Assorted Color Shells

Mad Bomber
Fireworks Productions

Orland Park IL

Specialty Stacks

Gold Strobes

12 3"

6 4"

3 5"

Flower Crowns

12 3"

6 4"

3 5"

Crackling Nishiki Kamuro

12 3"

6 4"

3 5"

Different size shells breaking at multiple heights creating a stacking effect.

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Orland Park IL

32 **3" SPECIALTY SHELLS**

3" Color Wolfs

3" Silver Serpent w/Magenta

3" Whistling w/Color Stars

3" Red Sky Mines

3" Blue Sky Mines

3" White Sky Mines

3" Smile Face

3" Assorted Sky Mines

3" Peach Flying Stars

3" Banger Chartreuse

3" Blue Comets

3" Diamond Screamer w/Color Stars

3" White Strobe Waterfall

3" Orange Strobe

28 **4" SPECIALTY SHELLS**

4"Cyan Sky Mine

4" Whistle Red Stars

4" Silver Flying Fish

4" Aqua w/Silver Turbulence

4" Farfalla w/Magenta Stars

4" Assorted Color Wolfs

4" Multi Color Flying Stars

4" Silver Serpents w/Mag Colors

4" Whirlpool Green Xsette

4" Whirlpool Red Xsette

4" Green Sound Ring

4" Tourbillion w/Color Stars

4" Diamond Screamer w/Color Stars

4" Lemon Xsette w/Time Rain

4" Ti Serpent w/Red & Blue to Report

4" Ti Whistle Ring w/Lemon

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24 3 INCH SHELLS

Three Shot Volleys

Silver Flying Fish
Green Strobe
Yellow Strobe
RWB Ring w/Mine Red Strobe
RWB w/Brocade Mine

Red Falling Leaves
Green Falling Leaves
Yellow Falling Leaves
Purple Falling Leaves
Flower Crowns

18 4 INCH SHELLS

Three Shot Volleys

Poinsettas
Half Red Half Silver
Cyan w/Magenta Pistol
Green to Orange
Color Flying Stars

Red Strobes
White Strobes
Crackling Willows
Flower Crowns
Gold Strobes

**Three shells shot simultaneously and
spread across sky**

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3 INCH SHELLS

36 Guandu

Red Peony w/Red Tail
Green & Purple Peony w/Tail
Green & Blue Chrysanthemum w/Tail
Glittering Big Willow
Five Pieces Willow
Red Stars w/1000Green w/Tail
Yellow to Crackling
Silver Crown to Red
Silver Crown to Yellow

Golden Gamboge to Blue
Golden Gamboge to Green
Silver Strobe
Brocade Crown to Red
Brocade Crown to Blue
Ripples to Red
Ripples to Blue
Red Peony w/Strobe Pistil
Color Flower Rain w/Silver Tail

12 Yung Feng

White Twinkling Chrysanthemum
Variegated Cycas Bloom
Green Chrysanthemum w/Crackling
Golden Silk Chrysanthemum
Red Cherry Blossom w/Tail
Nishiki Kamuro

Crackling Nishiki Kamuro
Golden Wave to Purple Chrysanthemum
Glittering Silver to Red Chrysanthemum
Reddish Gamboge to Silver Chrysanthemum
Nishiki Kamuro Niagra Falls
Silver Willow

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Fireworks Productions

Orland Park IL

3 INCH SHELLS * main body

72 Wizard Brand

Silver Strobe
USA Style Titanium Whistle Cannister
Red to Crackling Chrysanthemum
Blue Cypas w/ Gold Tail
Crackling Spider to Yellow w/Silver Tail
Silver to Green to Blue Peony w/Gold Tail
Red to Blue Peony w/Coco Pistil w/ Sil. Tail
Gold Silk w/Gold Tail
Purple Chrys. w/Coco Pistil w/Sil Tail
Green to Flash w/Coco Pistil
Blue to Red Flash
Brocade Crown w/Blue Pistil
Red Cypas Blossom
Purple Peony w/Gold Coco Pistil
Firefly Waterfall w/Firefly Tail
Silver Palm Tree w/Silver Tail
Green Peony w/Coco Pistil
Gittering Silver to Vaireigated

Glittering Sil to Red w/Blue Pistil w/Sil Tail
Glittering Sil to Blue w/Red Pistil w/Sil Tail
Bowtie w/Ring w/Sil Tail
Green Peony w/Purple Pistil w/Sil Tail
Red Chrys w/Blue Pistil w/Gold Tail
Glittering Coconut w/Glittering Tail
New Rainbow Color Dahlia
Blue USA Style Cannister
RWB Peony to Crack Chrys w/Gold Tail
Glittering Silver to Blue
Yellow Chrys w/Coco Pistil w/Sil Tail
Magenta Peony w/Palm Core
1/2 Red 1/2 Blue Chrysanthemum
Red White & Blue Peony
Red to Crackling
Silver Peony w/Green Pistil
Gold Spangle w/Purple Pistil
Silver Fish w/BlueRing

12 Titanium Salute

Mad Bomber
Fireworks Productions

Orland Park IL

4 INCH SHELLS * main body

36 Guandu

Red Peony w/Red Tail
Red Chrysanthemum w/tail
Blue Chrysanthemum w/Tail
Glittering Big Willow
Five Pieces Willow
Red to Crackling
Yellow to Crackling
Silver Crown to Red
Silver Crown to Yellow

Golden Gamboge to Blue
Golden Gamboge to Green
Silver Strobe
Brocade Crown to Red
Brocade Crown to Blue
Ripples to Red
Ripples to Blue
Red Peony w/Strobe Pistil
Red Peony wCrackling Pistil

36 Dominator

Green Peony w/Palm Core & Tail
Red Peony w/Glitt Coco Core & Tail
Purple Peony w/Green Pistil & Pur Tail
Vareigated Chrysanthemum w/Blue Tail
Spangle Chrysanthemum w/Red Tail
Crack Flower Chrys w/Crack Tail
1/2 Yellow 1/2 Blue w/Blue Tail
Color Wave w/Silver Tail
Gold Wave Green Strobe Chrys

Glitt Silver to Green to Red
Red and Spangle Chrysanthemum
Silver Strobe w/Strobe Tail
Brocade Crown to Crackling w/Crack Tail
Yellow to Crackling w/Crack Tail
Vareigated Color to Crack Flower
Green Ring w/Green Tail
Crackling Willow w/Gold Tail
Crackling Palm Tree w/Crackling Tail

Mad Bomber
Fireworks Productions

Orland Park IL

4 INCH SHELLS * main body

72 Wizard Brand

Blue to Flash w/Coco Pistil
Blue Cherry Blossom w/ Silver Tail
Brocade Crown w/Silver Tail
Blue Cycas w/ Gold Tail
Crackling Spider to Yellow w/Silver Tail
Silver to Green to Blue Peony w/Gold Tail
Red to Blue Peony w/Coco Pistil w/ Sil. Tail
Gold Silk w/Gold Tail
Purple Chrys. w/Coco Pistil w/Sil Tail
Green to Flash w/Coco Pistil
Red Cherry Blossom
Brocade Crown w/Blue Pistil
Red Cycas Blossom
Purple Peony w/Gold Coco Pistil
Crackling Nishiki Kamuro
Silver Palm Tree w/Silver Tail
Green Peony w/Coco Pistil
Gittering Silver to Vareigated

Glittering Sil to Red w/Blue Pistil w/Sil Tail
Glittering Sil to Blue w/Red Pistil w/Sil Tail
Bowtie w/Ring w/Sil Tail
Green Peony w/Purple Pistil w/Sil Tail
Red Chrys w/Blue Pistil w/Gold Tail
Glittering Coconut w/Glittering Tail
New Rainbow Color Dahlia
Blue USA Style Cannister
RWB Peony to Crack Chrys w/Gold Tail
Glittering Silver to Blue
Yellow Chrys w/Coco Pistil w/Sil Tail
Magenta Peony w/Palm Core
1/2 Red 1/2 Blue Chrysanthemum
3 Concentric Ring
Red to Crackling
Silver Peony w/Green Pistil
Gold Spangle w/Purple Pistil
Silver Fish w/BlueRing

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Fireworks Productions

Orland Park IL

4 INCH SHELLS * main body

36 Jinsheng

Chrys w/Rthree Section Time Rain w/Coco Pistil
Red Strobe w/Blue Sky w/Rising Tail
Silver Coconut w/ Glittering
Sun Ring w/ Rising Tail
Double Half Red to Red
Yellow Cycas w/Rising Tail
Red to Green Crossette Ring
Silver Wave w/Special Green Strobe
Thousand Red w/Time Rain

Blue Peony to Brocde w/Palm Core
Flower Wave to Purple w/Rising Tail
Glittering Silver to Blue to Green
Green Cherry Blossom
Red Peony w/Rising Tail
Yellow Peony w/Green Pistil
Green to Flickering
Ring w/ Multi Color Flower
Kaleidoscope w/Waterfall

36 Yuan Yang

Color Diadem w/Gold Tail
Gold Silk Chrysanthemum
Golden Willow w/Flare Moons
Color Palm Tree w/Crown Flowers
Nishiki Kamuro w/Color Tips
Crackling Nishiki Kamuros

Eight Hearts w/Rising Purple Flowers
Revolving Dragons w/Blooms
Thousand Color Titanium Salutes
Silver Crossette in Red & Blue Peony
Nishiki Kamuro w/Niagra Falls

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Orland Park IL

5 INCH SHELLS * main body

36 Pheasant

Chrys w/Red to Green Ring
Silver Crackling Palm Tree
Purple Wave
Red Flower Rain
Gold Wave to Aqua
Smiley Face
Brocade Butterfly
Sea Blue and Lemon Dahlias
Blue Palm Tree
Blue Peony w/Silver Core
Gold Diadem Willow
Gold Wave to Purple to Green

Silver Crown w/Small Red Flowers
Ripples to Variegated Wave
Crackling to Sil Crossette
China Storm
White Strobing
Yellow Peony
Red to Purple to Green Peony
Red Peony w/Glitt Gold Palm Tree Core
Gold Wave to Red to Green
Green to Yellow w/Yellow to Green Pistil
Yellow Peony w/Blue Palm Tree Core
Silver Wave to Green to Crackling

36 Yung Feng

Glitt Sil to Blue to Red w/Reports
Gold Wave to Red to Blue Flickering
Colored Diadem
Sil Nishiki Kamuro w/Blue Pistil
Eight Hearts w/Tail
Purple Sunflower w/Tail
Sil Coconut Tree w/Red Flowers
Gold Coconut Tree w/Blue Blooms
Aqua Peony
RWB to 5 Report
Gold Coco to Red Crown Flower

Red Gamboge to Red to Blue Chrys
GW to Purple Chrys w/Red to Sil Pistil
Spangle Chrys w/Crackling Blue Pistil
Nishiki Kamuro w/Tail
Twinkling Silver Willow
Revolving Dragons w/Red Flowers
Twinkling Coconut Crossette
Bright Red Diadem
Green Twinkling Willow
Green Meteor
Variegated Flowers

5 INCH SHELLS

Orland Park IL

5 INCH SHELLS * main body

60 Wizard

Brocade Waterfall w/Tail
Brocade Crown Chrysanthemum
3 Concentric Ring w/Crack Pistil
Silver Strobing w/Tail
RWB USA Style Cannister w/Tail
Happy Face w/Tail
Glitt Sil to Blue w/Green Pistil
Saturn Giant Blue Peony
Glitt Sil to Blue w/Red Pistil
Glitt Sil to Red w/Blue Pistil
Red Crossette Palm Tree w/tail
Silver Crossette Palm Tree w/Tail
Gold Crossette Palm Tree w/Tail
Giant Brocade Crossette Palm Tree
Five Concentri Ring
Gold Strobes w/tail
1/2 Red 1/2 Blue Chrys w/ Broc Cross Pistil
Saturn Giant Red Peony w/Brocade Ring
Sil to Blue Chrys w/Red Pistil
Blue to Green Peony w/Coco Pistil
Three Ring w/Pistil
Schreecher Cannister
RWB Peony w/Coco Pistil
Green Strobes w/Tail

Nishiki Kamuro to Purple w/Tail
Purple Peony w/ Crossette Brocade Pistil
New Color Rainbow w/Gold Strobe Pistil
China StormGlittering Coconut Tree
Glitt Sil to Purple Peony w/Green Pistil
Crackling Green Palm w/Blue Flowers
Brocade Crossetting Palm Tree w/Broc Tail
Gold Tails to Green Palm w/Sil Tail
Crackling Glitter Palm w/Crack Tail
Ti Whistle Ring w/Red & Blue Cannister Shell
Glitt Sil to Blue Chrys w/Broc Red Pistil
Brocade Waterfall w/Silver Leaves
Gold Coconut to Green Flowers
Giant Gold Octopus w/Red Eyes & Bro Ring
Giant Green Peony w/Brocade Ring
Gold Chrys w/Rainbow Ring
Gold Crossette Palm w/Trunk
Glittering Silver
Red Peony w/Blue Pistil
Red to Blue Peony w/Coco Pistil
Brocade to Red to Blue Chrys
Gold Peony w/Blue Pistil
Red Strobes w/Tail
Giant Z Willow Palm w/Z Willow Tail

5 INCH SHELLS

Orland Park IL

6 INCH SHELLS * main body

9 New Year

Cascading Corolla
Green w/Yellow Pistil and Rising Flowers
Multi Color Cycas w/Rising Stem
Red Chrys to Corolla w/Rising Tail
Blue to Red with Silver Pistil

Yellow to Green to Yellow w/Green Pistil
Silver Glittering w/Red to Blue Pistil Blue
Chrys to White Strobe
Red Chrys to White Strobe

9 Guando

Orange Chrysanthemum
Gold Brocade Crossette
Red Chrysanthemum
Blue Chrysanthemum

Silver Chrysanthemum
Yellow Chrysanthemum
Red to Blue to White Peony
Yellow and Green Peony
Glittering Orange Waterall

9 Yung Feng

Red and Yellow Sunflower
Silver Palm w/Rising Tail
Nishiki Kamuro Multi Color
Crackling Nishiki

1/4 Slice Asst Color Peony w/Crackling Core
Silver Wave to Crackling Color
1/2 Lemon 1/2 Lime w/Tail
1/2 Red 1/2 Blue
White Pistil Violet w/Green Pistil

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Orland Park IL

6 INCH SHELLS * main body

36 Wizard

Red Peony w/ Coco Pistil Silver Tail
Blue Peony Red Pistil Silver Tail
Yellow Chrys Purple Pistil Silver Tail
Glittering Silver Green to Purple
New Rainbow Color Dahlia
Glittering Sil to Red Silver Tail
Brocade Crown to Silver Glittering
Crackling Coco Small Blue Flower
Red Cycas Blooms Silver Tail
Star in Circle
Smile Face
Triple Ring
Bowtie Ring
Vareigated Thousand Peony
Brocade w/New Color Dahlia
Purple Peony
Silver Peony
Blue Peony
Red to Blue Chrysanthemum
Yellow to Green Chrysanthemum
White to Green Chrysanthemum

Vareigated to Crackling Silver Tail
Crackling Nishiki Kamuro Gold Tail
Gold Spangle w/Green Pistil Gold Tail
Firefly Crossette Gold Tail
Glittering Sil to Green w/Pur Pist Sil Tail
Green Peony w/ Yellow Pistil
Blue Cherry Blossom
Sil to Green to Blue Chrys Silver Tail
Giant Octopus to Green Gold Tail
Double Heart
Five Stack Ring
Saturn Ring
Silver Ring w/New Color Chrysanthemum
Stained Glass
Red Strobe
Red Peony
Green Peony
Yellow Peony
Blue to White Chrysanthemum
Purple to Silver Chrysanthemum
Green to Red Chrysanthemum

6 INCH SHELLS

24 **8 INCH SHELLS** * main body

Brocade
Brocade new/New Color Pistil
Red Peony w/Blue Pistil
Blue Peony w/Red Pistil
Purple Chrysanthemum
Blue Cherry Blossom
Planet Saturn
Gold Crown w/Kaleidoscope Pist
Color Kaleidoscope w/Glitt Pistil
Color Diadem
Gold Willow w/Falling Leaves
Blue Willow
Blue to Silver Small Flowers
Blue Sunflower
Multi Color Thousand Circle
Red Peony
Blue Peony
Nishiki Kamuro w/Falling Leaves
Purple Crossette
Assorted Color Ripples w/Ring

Broc Palm Tree Dble Crossette
Waterfall
Yellow Chrys w/Gold Tail
Green Peony w/Sil Tail
Gold Wave w/Colo Tips
Red Cycas Blooms
Glitt Silver to Red to Blue
Purple Flickering w/Gold Strobe Pistil
Gold Wave to Purple to Red w/Pistil
Crack Nishiki Kamuro w/Pistil
Eight Hearts w/Rising Leaves
Purple Willow Thousand Color
Green Cycas Bloom
Blue Red to Green Peony
Purple Peony
Green Peony
Nishiki Kamuro Niagra Falls
Crackling Kamuro Chrys.
Blue to Red to Silver Peony
Saturn Ring

8 INCH SHELLS

Orland Park IL
Finale

228 2.5" Assorted Willows

360 3" Finale Shells

Dominator Color Finale
Dominator Specialty Finale
Kanto Mag Color Finale
Kanto Comet and Color Finale
Kanto Premium Color Finale
Vulcan Red White and Blue Finale
Vulcan Twilight Glitter Finale
Wizard Color Finale
Wizard Specialty Finale
Wizard Brocade Crown Finale
Wizard Glittering Silver Finale
Wizard Gold Crys Finale

36 3" Titanium Salutes

36 4" Finale Shells

Vulcan Color Finale
Vulcan Twilight Glitter Finale
Wizard White Strobe Waterfall Finale
Wizard Assorted Ring Finale
Wizard Color Finale
Kanto Color Finale
Kanto Gold Brocade Finale

14 5" Assorted Color Chrysanthemums

6 6" Assorted Color Chrysanthemums

Mad Bomber
Fireworks Productions

MAD BOMBER

FIREWORKS PRODUCTIONS

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LAPORTE, IN 46350

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References:

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ON SITE SAFETY INSTRUCTIONS

Rules must be adhered to on each and every site.

EMERGENCY CONTACT INFORMATION:

MAIN OFFICE- 219-393-5051

CHEMTEL: 800-255-3924 CONTRACT#MIS0005800

All PERSONS on site MUST be at least 18 years or older. NO EXCEPTIONS.

Once a show is delivered to a site.. it shall NEVER be left unattended. Site security should be properly maintained at all times.

EMERGENCY ACTION PLAN: Upon arriving on the display site, the Operator is to devise an EAP- Emergency Action Plan for the display. Prior to setting up any equipment, the Operator is to communicate the plan to all other workers. Each display will have its own site-specific plan due to locale and geographic features. The EAP must include the following:

- . Emergency escape routes away from the display fireworks
- . A safe location away from the fireworks to account for all workers
- . A plan to notify emergency personnel and whom will direct them to the site.
- . Instruct all workers on the location of emergency response information and MSDS

right to know information.

This plan may be given verbally, and Operator shall confirm each worker understands.

FIRE AND EXPLOSION HAZARD DATA

Do not attempt to fight fire in vicinity of Special Fireworks – Evacuate Areas. Evacuate fire area immediately and seek shelter. Follow established emergency action plan. Fireworks may mass explode in a fire situation.

NO SMOKING OR OPEN FLAME- smoking, open flame, smoking materials (ie. lighters, matches) are forbidden in the loading or un-loading and display areas. No smoking signs may be posted in a conspicuous area upon set up of site. A minimum of 25' in all directions, from the perimeter surrounding the site is to be maintained as non-smoking.

LOADING AND UNLOADING:

- .Vehicle engine must not be running, and hand brake must be set.
- .No smoking, open flame or source of static discharge shall be allowed, ie. cell phones, pagers, lighters, etc.
- .Boxes must **NEVER** be thrown, slid or dropped. Be especially careful when boxes contain fireworks with igniters attached.
- . Never use bale hooks or other metal tools to load or unload boxes of explosives.

SAFETY EQUIPMENT AND CLOTHING: Non-synthetic clothing must always be worn. This prevents the possibility of static build-up and discharge, as well as the possibility of material 'melting' on to the skin in the event of hot fall-out or fire. After set-up of site, pants must be worn, no shorts. Eye protection, ear protection and closed toe shoes are required. Hats or head coverings should be used to protect the head, but must not impede your vision, or 'contain' the force of a blast in the event of spontaneous explosion.

ASSURE PROPER INSTALLATION AND SET UP OF SITE:

All mortar boxes, racks and drums shall be properly installed on each show.

Maintaining a safe Display Site is top priority. These reminders, along with your training, should assist you in performing a safe and spectacular show. If you have any questions, address the Operator right away.

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

1 Identification

· **Product identifier** FIREWORKS, DIVISION 1.3 EXPLOSIVE

· **Trade name:**

· **Product code:**

· **Recommended use and restriction on use**

· **Recommended use:** Explosive product for professional use for entertainment and technical purposes

· **Restrictions on use:** Contact manufacturer/supplier

· **Details of the supplier of the Safety Data Sheet**

· **Manufacturer/Supplier:**

· **Emergency telephone number:**

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· **Classification of the substance or mixture**

Expl. 1.3 H203 Explosive; fire, blast or projection hazard.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS01

· **Signal word:** Danger

· **Hazard statements:**

H203 Explosive; fire, blast or projection hazard.

· **Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P250 Do not subject to grinding/shock/friction.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P373 DO NOT fight fire when fire reaches explosives.

P370+P380 In case of fire: Evacuate area.

P372 Explosion risk in case of fire.

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 01/06/2017

Revision: 01/06/2017

Trade name:

(Cont'd. of page 1)

P401 Store in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

· **Explosive Product Notice**

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

Components for product possessing only physical hazards do not require reporting. These components are considered proprietary.

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Information is only applicable to product contents, and not to product as normally supplied. This information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Wash with soap and water.

In case of minor burns, flush with cool water.

If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Unlikely route of exposure.

Do not induce vomiting; immediately call for medical help.

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

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Trade name:

(Cont'd. of page 2)

- **Most important symptoms and effects, both acute and delayed:**
Blast injury if mishandled.
Thermal burns, if mishandled.
- **Danger:** Danger of blast or crush-type injuries.
- **Indication of any immediate medical attention and special treatment needed:**
Product may produce physical injury if mishandled. Treatment of these injuries should be based on the clinical presentation.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
DO NOT fight fire when fire reaches explosives.
Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
Explosive; fire, blast or projection hazard.
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information:**
Eliminate all ignition sources if safe to do so.
In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Cool endangered receptacles with water spray.
Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Mass explosion of multiple devices is possible under certain conditions. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2012 Emergency response Guidebook for further information.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Remove persons from danger area.
Ensure adequate ventilation.
Isolate area and prevent access.
- **Environmental precautions**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Methods and material for containment and cleaning up**
Pick up mechanically.

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Send for recovery or disposal in suitable receptacles.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Handling**

- **Precautions for safe handling:**

Handle with care. Avoid jolting, friction and impact.

Restrict the quantity stored at the work place.

Keep out of reach of children.

- **Information about protection against explosions and fires:**

In case of fire: Evacuate area.

Explosion risk in case of fire.

Keep away from sparks and open flames. - No smoking.

Emergency cooling must be available in case of nearby fire.

- **Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

- **Information about storage in one common storage facility:**

Store in accordance with local/regional/national/international regulations.

Store away from foodstuffs.

Store away from flammable substances.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store locked up.

- **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- **Engineering controls:** Provide adequate ventilation.

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- **Breathing equipment:** Not required under normal conditions of use.
- **Protection of hands:** When needed, wear gloves for protection against mechanical hazards.
- **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:** When needed, wear protective clothing for protection against mechanical hazards.
- **Limitation and supervision of exposure into the environment**
No relevant information available.
- **Risk management measures**
Organizational measures should be in place for all activities involving this product.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· Appearance:

Form: Outer shell containing powder, granular, or solid materials.

Color: According to product specification

· Odor: Odorless

· Odor threshold: Not determined.

· pH-value: Not applicable.

· Melting point/Melting range: Not determined.

· Boiling point/Boiling range: Not determined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Fire or projection hazard.

· Auto-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Danger of explosion: Heating may cause an explosion.

· Explosion limits

Lower: Not determined.

Upper: Not determined.

· Vapor pressure: Not applicable.

· Density: Not determined.

· Relative density: Not determined.

· Vapor density: Not applicable.

· Evaporation rate: Not applicable.

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- | | |
|---|------------------------------------|
| · Solubility in / Miscibility with Water: | Insoluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Other information | No relevant information available. |

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** Risk of explosion if heated under confinement.
- **Possibility of hazardous reactions**
Explosive; fire, blast or projection hazard.
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and alkali.
- **Conditions to avoid**
Excessive heat.
Sources of ignition: sparks, open flame, incompatible materials
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Nitrogen oxides
Sulfur oxides (SOx)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:**
Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.
- **On the eye:**
Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer):
--

None of the ingredients are listed.

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· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Probable route(s) of exposure:**

Skin contact.

Eye contact.

Inhalation.

· **Acute effects (acute toxicity, irritation and corrosivity):**

Danger of blast or crush-type injuries.

Risk of thermal burns.

· **Repeated dose toxicity:** From product as supplied: None.· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.· **Carcinogenicity:** Based on available data, the classification criteria are not met.· **Reproductive toxicity:** Based on available data, the classification criteria are not met.· **STOT-single exposure:** Based on available data, the classification criteria are not met.· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.· **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

· **Toxicity**· **Aquatic toxicity** No relevant information available.· **Persistence and degradability** No relevant information available.· **Bioaccumulative potential:** May be accumulated in organism· **Mobility in soil:** No relevant information available.· **Other adverse effects** No relevant information available.

13 Disposal considerations

· **Waste treatment methods**· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Incinerate in accordance with local, state and federal regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

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- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**
 · DOT, ADR, IMDG UN0335
 · IATA FORBIDDEN

· **UN proper shipping name**
 · DOT, ADR, IMDG Fireworks
 · IATA FORBIDDEN

· **Transport hazard class(es)**

· DOT



· **Class** 1.3
 · **Label** 1.3G

· **ADR**



· **Class** 1.3
 · **Label** 1.3G

· **IMDG**



· **Class** 1.1
 · **Label** 1.3G

· **IATA**

· **Class** FORBIDDEN

· **Packing group**

· DOT II

· **Environmental hazards**

· **Marine pollutant:** No

· **Special precautions for user** Not applicable.

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- | | |
|--|-----------------|
| · EMS Number: | F-S,B-X |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· Section 302 (extremely hazardous substances):
--

None of the ingredients are listed.

· Section 304 (emergency release notification):
--

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):
--

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):
--

Contact manufacturer.

· TSCA (Toxic Substances Control Act)
--

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

Contact manufacturer.

· Chemicals known to cause reproductive toxicity for females:
--

Contact manufacturer.

· Chemicals known to cause reproductive toxicity for males:
--

Contact manufacturer.

· Chemicals known to cause developmental toxicity:

Contact manufacturer.

· Carcinogenic categories

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):
--

Contact manufacturer.

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· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

Contact manufacturer.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 01/06/2017 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

LDLo: Lowest Lethal Dose Observed

Expl. 1.3: Explosives – Division 1.3

· **Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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