Safety Data Sheet

Section 1: Identification

Product Name: **Flash Powder "B"**

Recommended use: When mixed its "B" component "Fuel" is becomes a pyrotechnic Powder. Can be used in a firing pot or in airburst form. Produces bright flashes, colors, or smoke sometimes with report.

Professional Use only by a qualified Pyrotechnician in a Theatrical Entertainment Application or in Professional Training Applications.

Manufacturer/ Supplier:
Name and Address:
Ultratec Special Effects, Inc. 148 Moon drive
Owens Crossroads, AL 35763
United States
Telephone Number: (256) 725-4224
www.ultratecfx.com

Emergency Telephone Number: 800-255-3924 (813) 248-0585 – Chemical Tel Inc.

Section 2: Hazard Identification Summary

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

2.1 Classification of the substance or mixture

- **Physical Hazards:**
  - **Flammable solids:** Category 1 (H228: Flammable solid)
- **Health Hazards:**
  - **Serious eye irritation:** Category 2A (H319: Causes serious eye irritation)
  - **Specific target organ toxicity (single exposure):** Category 3 (H335: May cause respiratory irritation)

2.2 GHS Label elements

WARNING

- **Signal Word: Danger**
- **Hazard Statements:**
  - **H228:** Flammable solid.
  - **H319:** Causes serious eye irritation.
  - **H335:** May cause respiratory irritation.

2.3 Precautionary statements

- **Prevention:**
  - **P210:** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
  - **P240:** Ground and bond container and receiving equipment.
  - **P241:** Use explosion-proof electrical, ventilating, lighting, and material handling equipment.
  - **P261:** Avoid breathing dust/fume/gas/mist/vapors/spray.
  - **P264:** Wash thoroughly after handling.
  - **P271:** Use only outdoors or in a well-ventilated area.
  - **P280:** Wear protective gloves/eye protection/face protection.
- **Response:**
  - **P304 + P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - **P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - **P337 + P313:** If eye irritation persists: Get medical advice/attention.
  - **P370 + P378:** In case of fire: Use sand, metal fire extinguishing powder, or Class D fire extinguisher to extinguish. DO NOT use water.
- **Storage:**
  - **P403 + P233:** Store in a well-ventilated place. Keep container tightly closed.
  - **P405:** Store locked up.
- **Disposal:**
  - **P501:** Dispose of contents/container in accordance with local/regional/national/international regulations.

2.4 Other Hazards

- Fine dusts of magnesium may form explosive mixtures with air. The reaction with water can generate flammable hydrogen

gas.

Section 3: Composition/Information on Ingredients

Chemical characterization: Mixtures/ Components:

Components for product possessing only physical hazards do not require reposting. These components are considered trade secret and proprietary information purposes.

Section 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 complications.
After skin contact: Wash with 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.
Most important symptoms and effects, both acute and delayed: Thermal burns, if mishandled.
Danger: No relevant information available.
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**.**

Section 5: Fire-Fighting Measures

Extinguishing Media:
Suitable extinguishing agents:
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:
During heating or in case of fire poisonous gasses are produced. Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.
Advice for Firefighters: Wear self-contained respiratory protective device.
Special Fire Fighting Procedures: Do not use suffocation method; device contains its own oxygen. If large quantities are involved, allow them to burn and prevent spread of fire.
Unusual Fire and Explosion Hazards: Items will burn rapidly in the event of ignition, and items may become airborne if not secured or contained.
Additional information: Eliminate all ignition sources if safe to do so. 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. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2020 Emergency response Guidebook for further information.

Section 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. 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.

Section 7: Handling and Storage

The current Section 7 is not correct for magnesium powder. It uses language for an explosive device, not a raw chemical. Here is a corrected and appropriate version for you to use.

Section 7: Handling and Storage
7.1 Precautions for safe handling:
Handle the product with care to prevent the generation of dust clouds. Avoid contact with skin, eyes, and clothing. Avoid inhalation of dust. Wear appropriate personal protective equipment (PPE), including chemical-resistant gloves, and eye/face protection (e.g., safety glasses or goggles). Use in a well-ventilated area or with local exhaust ventilation to minimize dust exposure. Wash hands thoroughly after handling. Keep away from heat, sparks, open flames, and hot surfaces. NO SMOKING. Avoid contact with water.
7.2 Conditions for safe storage, including any incompatibility:
Store in a cool, dry place. Keep the container tightly closed. Protect from physical damage and moisture. Store away from incompatible materials.
Incompatible Materials:

- **Oxidizing Agents: Keep away from oxidizers, such as nitrates (e.g., strontium nitrate), permanganates, peroxides, and chlorates. Mixing with these substances can create an explosive or highly flammable mixture.**
- **Acids and Alkalis: Store away from strong acids and alkalis.**
- **Water: Keep away from water and moist conditions, as this can produce flammable hydrogen gas.**

7.3 Specific end use(s):
No further relevant information is available.

Section 8: Exposure Controls/ Personal Protection

Exposure Controls:
Personal protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuff, beverages, and feed. Wash hands after handling.
Engineering Controls: Provide adequate ventilation.
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 should be worn. 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.

Section 9: Physical and Chemical Properties

Appearance: Outer shell containing powder, granular, or solid materials. All other properties have not been determined for this product.

Section 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: Fire or projection hazard. Toxic fumes may be released if heated above decomposition point. Reacts with strong acids and alkali.

Conditions to avoid: Excessive heat, sources of ignition, sparks, open flames, and incompatible materials.

Incompatible materials: Oxidizers, strong bases, strong acids.

Section 11: Toxicological Information

Hazardous decomposition products: Carbon monoxide, carbon dioxide, Nitrogen oxides, sulfur oxides(Sox)

Information on toxicological effects:

Acute toxicity: LD/LC 50 values that are relevant to classification : None

On the skin: Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.

On the eyes: Not an eye irritant in unused form, vapors/particles from used product are possibly irritating to eyes.

Sensitization: Based on the available data, the classification criteria are not met.

Carcinogenic categories:

IARC (International Agency for Research on Cancer) None of the ingredients are listed.

NTP: (National Toxicology Program) None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration) None of the irritating are listed.

Probable route(s) of exposure: Skin, Eye, Inhalation

Acute effects (acute toxicity, irritation, and corrosivity): Thermal burns, if mishandled

Repeated dose toxicity: From product as supplied NONE
Chronic Effects on Humans: Exposure to finished items does not pose a health hazard. During function, the gases and smoke created may cause respiratory irritation if inhaled in large amounts. Device may causethermal burns if used improperly

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation: Not Available
Toxicity of the Products of Biodegradation: Not available.
Special Remarks on the Products of Biodegradation: Not available

Section 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, federal and local 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 waste. Residual materials should be treated as hazardous.

Section 14: Transport Information

Section 14: Transport Information
14.1 UN-Number
UN 1418
14.2 UN proper shipping name
MAGNESIUM POWDER
14.3 Transport Hazard Class(es)
DOT, ADR, IMDG, IATA: 4.1
14.4 Packing Group
DOT, ADR, IMDG, IATA: II
14.5 Environmental hazards

- **Marine pollutant: No**

14.6 Special precautions for user

- **Warning: Flammable solid.**
- **EMS Number: F-A, S-G (This is the correct number for a flammable solid under the IMDG Code).**
- **Transported as a regulated commodity. See section 7 for handling and storage precautions.**

Section 15: Other Regulatory Information

Safety, health, and environmental regulations/legislation specific for the substance or mixture: Under **Section 302, 304, 355**, none of the ingredients are listed.

Section 313: Contact Manufacturer.

Section 16: Other Information

Date of preparation / last revision: May 2022
This information is based on our knowledge; However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

All Pyrotechnics should be used and handled with extreme caution, in accordance with all relevant regulations and codes only by experienced professional Pyrotechnicians.