

SECTION 1: Identification

1.1. Identification

Product form : Article
 Product name : EP-706 Igniter
 Other means of identification : part number 13033570-1

1.2. Recommended use and restrictions on use

Use of the substance/mixture : A controlled pyrotechnic reaction to produce a specified output of gas, flame or hot particles.
 Restrictions on use : Uses other than listed on the manufacturer product label

1.3. Supplier

EaglePicher Technologies, LLC 1215 W. C St.
 Joplin, MO, 64801
 T 417-623-8000
 inquiry@eaglepicher.com

1.4. Emergency telephone number

Emergency number : Chemtrec 800-424-9300, Chemtrec 703-527-3887 (outside of US and Canada);
 800-681-9531 (Mexico)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Explosive Category 1.4 H204 Fire or projection hazard
 Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
 Hazard statements (GHS US) : H204 - Fire or projection hazard
 Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P240 - Ground/Bond container and receiving equipment.
 P250 - Do not subject to grinding/shock/friction.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P370+P380 - In case of fire: Evacuate area.
 P372 - Explosion risk in case of fire.
 P373 - DO NOT fight fire when fire reaches explosives.
 P374 - Fight fire with normal precautions from a reasonable distance.
 P401 - Store in accordance with local regulations on explosives.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---------------------|-----------------------|---------|---|
| Metal fuel* | CAS-No.: Trade Secret | 30 – 60 | Pyr. Sol. 1, H250 Water-react. 1, H260 |
| Inorganic oxidizer* | CAS-No.: Trade Secret | 15 – 40 | Ox. Sol. 1, H271 Acute Tox. 4 (Oral), H302 |
| Organic sensitizer* | CAS-No.: Trade Secret | 0.1 – 1 | Not classified. |

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret. Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention. Wash skin with plenty of water.
First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
First-aid measures after ingestion : Get immediate medical advice/attention. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : None under normal conditions.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Specific hazards arising from the chemical

- Fire hazard : Fire or projection hazard.
- Explosion hazard : Explosion risk in case of fire.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Evacuate area. Do not fight fire when fire reaches explosives. Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.
- Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Do not subject to grinding, shock, friction.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Keep cool. Protect from sunlight.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Metal fuel

USA - ACGIH - Occupational Exposure Limits

| | |
|-------------------------|--|
| ACGIH OEL TWA | 5 mg/m ³ |
| ACGIH OEL STEL | 10 mg/m ³ |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |

Inorganic oxidizer

No additional information available

Organic sensitizer

USA - ACGIH - Occupational Exposure Limits

| | |
|---------------|--|
| ACGIH OEL TWA | 2 mg/m ³ (all forms except graphite fibers-respirable particulate matter) |
|---------------|--|

USA - OSHA - Occupational Exposure Limits

| | |
|--------------|---|
| OSHA PEL TWA | 15 mg/m ³ (synthetic-total dust) |
| | 5 mg/m ³ (synthetic-respirable fraction) |
| | 15 mppcf (natural-respirable dust) |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Solid |
| Appearance | : Paste. |
| Color | : Black Gray |
| Odor | : Odorless |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : Not applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : ≈ 400 °C |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : No data available |
| Explosion limits | : Not applicable |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

Percent Solids : 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Fire or projection hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) Acute : Not classified.
toxicity (dermal) Acute : Not classified.
toxicity (inhalation) : Not classified.

Inorganic oxidizer

ATE US (oral) 500 mg/kg body weight

Organic sensitizer

LC50 Inhalation - Rat > 2000 mg/m³ (Exposure time: 4 h Source: ECHA)

Skin corrosion/irritation : Not classified.
Serious eye damage/irritation : Not classified.
Respiratory or skin sensitization : Not classified.
Germ cell mutagenicity : Not classified.
Carcinogenicity : Not classified.
Reproductive toxicity : Not classified.
STOT-single exposure : Not classified.
STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified.
Viscosicty, kinematic : Not applicable
Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : None under normal conditions.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Organic sensitizer

LC50 - Fish [1] > 100 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--|---|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations. |
| Additional information | : Do not re-use empty containers. |

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

| | |
|---------------|----------|
| UN-No.(DOT) | : UN0454 |
| UN-No. (IMDG) | : 0454 |
| UN-No. (IATA) | : 0454 |

14.2. UN proper shipping name

| | |
|-----------------------------|------------|
| Proper Shipping Name (DOT) | : Igniters |
| Proper Shipping Name (TDG) | : IGNITERS |
| Proper Shipping Name (IMDG) | : IGNITERS |
| Proper Shipping Name (IATA) | : Igniters |

14.3. Transport hazard class(es)

DOT

| | |
|----------------------------------|--------|
| Transport hazard class(es) (DOT) | : 1.4S |
| Hazard labels (DOT) | : 1.4S |



IMDG

| | |
|-----------------------------|--------|
| Transport hazard class(es) | : 1.4S |
| (IMDG) Hazard labels (IMDG) | : 1.4S |



IATA

| | |
|-----------------------------------|--------|
| Transport hazard class(es) (IATA) | : 1.4S |
| Hazard labels (IATA) | : 1.4S |



14.4. Packing group

| | |
|---------------------|------------------|
| Packing group (DOT) | : Not applicable |
|---------------------|------------------|

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Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT
UN-No.(DOT) : UN0454
DOT Packaging Non Bulk (49 CFR 173.xxx) : 62
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 100 kg
DOT Vessel Stowage Location : 01 - The material may be stowed "on deck" or "under deck" on a cargo vessel (up to 12 passengers) and on a passenger vessel.
DOT Vessel Stowage Other : 25 - Protected from sources of heat

IMDG
Limited quantities (IMDG) : 0
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P142
EmS-No. (Fire) : F-B - FIRE SCHEDULE Bravo - EXPLOSIVE SUBSTANCES AND ARTICLES
EmS-No. (Spillage) : S-X - SPILLAGE SCHEDULE X-Ray - EXPLOSIVE ITEMS AND ARTICLES
Stowage category (IMDG) : 01
Properties and observations (IMDG) : See glossary of terms in appendix B.

IATA

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) : Forbidden
PCA max net quantity (IATA) : 142
CAO packing instructions (IATA) : 25kg
CAO max net quantity (IATA) : 142
CAO max net quantity (IATA) : 100kg
Special provision (IATA) : A802
ERG code (IATA) : 3L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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| | |
|-------------------------------------|-----------------------------|
| SARA Section 311/312 Hazard Classes | Physical hazard - Explosive |
|-------------------------------------|-----------------------------|

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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15.2. International regulations

Metal fuel

Listed on Thailand Existing Chemicals Inventory (DIW)

Organic sensitizer

Listed on Thailand Existing Chemicals Inventory (DIW)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component | State or local regulations |
|----------------------|---|
| Metal fuel() | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List |
| Inorganic oxidizer() | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List |
| Organic sensitizer() | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List |

SECTION 16: Other information

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Revision date : 10/29/2024

| Full text of hazard classes and H-statements | |
|--|---|
| H204 | Fire or projection hazard |
| H250 | Catches fire spontaneously if exposed to air |
| H260 | In contact with water releases flammable gases which may ignite spontaneously |
| H271 | May cause fire or explosion; strong oxidizer |
| H302 | Harmful if swallowed |

Safety Data Sheet (SDS), USA - HSI

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