



## MATERIAL SAFETY DATA SHEETS

360

Mercury fulminate

### 1. CHEMICAL IDENTITY

**Chemical Name :** Mercury fulminate

**Chemical Classification:** Explosive

**Trade Name :**

**Synonyms:** Fulminate of mercury, Mercury(II) fulminate

**Formula :** C<sub>2</sub>HgN<sub>2</sub>O<sub>2</sub>

**CAS No:** 628-86-4

**UN No:** 0135

### Regulated Identification

**Shipping Name :** Mercury fulminate

**Hazchem Code :** 1.1A

**Codes / Label :** Class 1, Explosive

**Hazardous Waste ID No :** 4

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
1 Mercury fulminate	628-86-4	3	
2		4	

### 2. PHYSICAL / CHEMICAL DATA

**Boiling Pt. °C:** 356.6

**Physical State:** Solid

**Appearance:** Silver-white heavy metallic liquid.

**Melting Pt °C:** -38.9

**Vapour Pressure @ 35°C mmHg:** 0.0012

**Odour:** Odourless

**Vapour Density(Air =1):**

**Solubility in water at 30°C g/100ml:** 0.01% @ 15.5 deg C

**Others:** Soluble in alcohol, ammonium hydroxide, and hot water; slightly soluble in cold water.

**Specific Gravity (Water =1 )::** 4.42

**pH :**

### 3. FIRE / EXPLOSION HAZARD DATA

**Flammability :** Yes

**LEL:**

**Flash Point °C in OC:**

**TDG Flammability:** 1

**UEL:**

**Flash Point °C in CC:**

**Autoignition Temperature °C :**

**Explosion sensitivity to impact:** Explodes

**Explosion sensitivity to static Electricity:** Explodes

**Hazardous Combustion Products :** Emits toxic fumes of NO<sub>x</sub>.

**Hazardous Polymerization :** Will not occur.

**Combustible Liquid:** No

**Explosive Material:** Yes

**Corrosive Material** No

**Flammable Material:** Yes

**Oxidiser :** No

**Others:**

**Pyrophoric Material:** No

**Organic Peroxide :** No

### 4. REACTIVITY DATA

**Chemical Stability :** Unstable

**Incompatibility with other material :** Sulphuric acid

**Reactivity :** Self-explodes

**Hazardous** :  
**Reaction Products**

## 5. HEALTH HAZARD DATA

**Routes of entry:** Inhalation, Ingestion, Skin & Eyes.

### Effects of Exposure / Symptoms:

Inhalation & ingestion : Readily absorbed by the respiratory and gastrointestinal tract.  
Inflammation of mucous membrane of nose and throat. Skin: Causes dermatitis and ulcers.  
Eyes: Severe irritation.

### Emergency Treatment :

**Inhalation:** Remove the victim to fresh air area, apply artificial respiration and oxygen, if needed.

**Skin:** Remove the contaminated clothes under water shower and wash the affected area with water and soap.

**Eyes:** Flush with plenty of water.

### Ingestion:

**LD50 (oral-rat) mg/kg:**

**STEL:**

**LC50 (rat) mg/kg:**

**Odour Threshold:**

**Permissible Exposure Limit:** 0.1 mg/m<sup>3</sup>

**TLV (ACGIH) :** 0.1 mg/m<sup>3</sup>

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals	4	1	4	

## 6. PREVENTIVE MEASURES

**Personal Protective Equipment :** Avoid contact with solid or dust. Since the material is self explosive protection for the entire body is a must.

**Handling :** Should be kept moist until used. Do not handle when frozen.

**Storage :**

**Precautions :**

## 7. EMERGENCY / FIRST AID MEASURES

### FIRE:

**Fire Extinguishing Media :** Dry chemical powder, CO<sub>2</sub> foam and water.

**Special Procedure :** Keep the containers cool by spraying water if exposed to heat or flame.

**Unusual Hazards :** Self explosive material.

### EXPOSURE: First Aid Measures:

**Inhalation:** Remove the victim to fresh air area, apply artificial respiration and oxygen, if needed.

**Skin:** Remove the contaminated clothes under water shower and wash the affected area with water and soap.

**Eyes:** Flush with plenty of water.

### Ingestion:

**Antidotes / Dosages:**

### SPILLS :

**Steps To Be Taken :** See that the spillages are always kept wet.

### Waste Disposal Method:

## 8. ADDITIONAL INFORMATION / REFERENCES

## 9. MANUFACTURERS / SUPPLIERS DATA

<b>NAME OF FIRM :</b>	<b>Contact person</b>
<b>MAILING ADDRESS :</b>	<b>in Emergency :</b>
<b>TELEPHONE / TELEX NOS :</b>	<b>Local Bodies involved :</b>
<b>TELEGRAPHIC ADDRESS :</b>	<b>Standard Packing :</b>
<b>OTHERS :</b>	<b>Trem Card Details / Ref :</b>

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