

# **MATERIAL SAFETY DATA SHEET**

Prepared By: Theatre Effects  
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Identity (Trade Name): CS102, CS103, CS104, CS105, CS107.

CAS Number: Potassium Chlorate 3811-04-9  
Ammonium Chloride 12125-02-9

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## **SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION**

Components: 23% Potassium Chlorate  
47% Ammonium Chloride

## **SECTION 2 - CHEMICAL CHARACTERISTICS**

Boiling Point: N/A  
Melting Point: N/A  
Vapor Pressure: N/A  
Specific Gravity: 1.4  
Vapor Density: N/A  
Solubility in Water: TO 85%  
Evaporation Rate: N/A  
Water Reactive: No  
Appearance and Odor: White or Colored Powder compressed in plastic tubes.

## **SECTION 3 - FIRE AND EXPLOSION HAZARD DATA**

Flash Point: N/A  
Auto Ignition Temp.: 250 C  
Flammability limits in air: N/A  
LEL: N/A  
UEL: N/A  
Extinguishing Media: Water only  
Special Fire Fighting Proc: None  
Unusual Fire & Expl Hazrds: When burning the cartridges produce a large amount of smoke at a constant rate.

## **SECTION 4 - REACTIVITY HAZARD DATA**

Stability: Stable  
Cond to Avoid (Stability): Avoid open flames and high temperature.  
Materials to Avoid: None  
Hazardous Decomp. Prod: N/A  
Hazardous Polymerization: Will not occur.  
Cond. to avoid (Poly): None

## **SECTION 5 - HEALTH HAZARD DATA**

Route of Entry - Inhalation: No  
Route of Entry - Skin: No  
Route of Entry - Ingestion: Yes  
Carcinogen Listed in: Not listed.  
Health Hazard, Acute: Toxic by ingestion.  
Health Hazard, Chronic: In severe case kidney damage.  
Symptoms of Exposure: Ingestion may give abdominal pain.  
Med. Cond. Generally  
Aggravated By Exp: Get medical assistance for all overexposure.

### **Emergency/First Aid Procedures**

EYES: Flush with water for 15 minutes  
SKIN: Wash with plenty of water.  
INHALATION: Fresh air, keep warm. Get medical assistance if breathing problems occur.  
INGESTION: Get medical assistance.

## **SECTION 6 - CONTROL AND PROTECTIVE MEASURES**

Respiratory Protection: Dust filter respirator 2B when exposed to smoke for a long time.  
Protective Gloves: Not required.  
Eye Protection: Not required.  
Ventilation To Be Used: Local exhaust.  
Other Protective Equipment: None.  
Work Hygienic Practices: Wash after handling.

## **SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/ LEAK PROCEDURE**

Steps If Matl. Released/Spill: Cleaning the area with water.  
Waste Disposal Method: Incinerate in a safe place.  
Precautions For  
Handling/Storing: Store in a dry place at a temperature below 40 C. Keep out of reach of children.  
Other Precautions: N/A  
NFPA RATING  
Health: 1  
Flammability: 1  
Reactivity: 0  
Special: 1