



MATERIAL SAFETY DATA SHEETS

35

Ammonium picrate

1. CHEMICAL IDENTITY

Chemical Name : Ammonium picrate

Chemical Classification: Oxidizing

Trade Name :

Synonyms: 2,4,6-Trinitrophenol, ammonium salt

Formula : C₆H₆N₄O₇

CAS No: 131-74-8

UN No: 1310

Regulated Identification

Shipping Name :

Hazchem Code : 1W

Codes / Label : Class 4.1, Oxidizing

Hazardous Waste ID No :

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
1 Ammonium picrate	131-74-8	3	
2		4	

2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C: 423 (explodes)

Physical State: Solid, crystalline.

Appearance: A yellow crystalline solid.

Melting Pt °C: 265-271

Vapour Pressure @ 35°C mmHg:

Odour:

Vapour Density(Air =1):

Solubility in water at 30°C g/100ml: 1 g/100 ml @ 20 °C

Others:

Specific Gravity (Water =1): 1.72

pH :

3. FIRE / EXPLOSION HAZARD DATA

Flammability :

LEL:

Flash Point °C in OC:

TDG Flammability:

UEL:

Flash Point °C in CC:

Autoignition Temperature °C :

Explosion sensitivity to impact:

Explosion sensitivity to static Electricity:

Hazardous Combustion Products : Contain highly toxic NO_x fumes.

Hazardous Polymerization :

Combustible Liquid:

Explosive Material:

Corrosive Material

Flammable Material:

Oxidiser : Yes

Others:

Pyrophoric Material:

Organic Peroxide :

4. REACTIVITY DATA

Chemical Stability : Explodes at 423 deg C or with shock. Reactive at high temperature or pressure.

Incompatibility with other material : Reacts vigorously with reducing materials. Violent reaction with aluminum; cyanide; esters; phosphorus ; sodium cyanide; tinchloride; sodium hypophosphite; thiocyanates, nitrates.

Reactivity :

Hazardous Reaction Products : When heated to decomposition it emits highly toxic fumes of oxides of nitrogen.

5. HEALTH HAZARD DATA

Routes of entry:

Effects of Exposure / Symptoms:

Inhalation: Dyspnea, tachypnea, cyanosis, and pulmonary edema may occur. Skin: Yellow staining of skin occurs following contact with nitrophenols. Diaphoresis is common. Eyes: Cataracts, secondary glaucoma, symblepharon, paresis of accommodation, and nystagmus have been reported. Ingestion: Nausea, vomiting, and abdominal pain may be prominent.

Emergency Treatment :

Inhalation: Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Skin: Wash affected areas of skin and hair vigorously with soap and water. Dermal exposure is usually accompanied by a yellowish discoloration which does not have to be removed completely to prevent absorption.

Eyes: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

Ingestion: Seek medical assistance.

LD50 (oral-rat) mg/kg:

STEL:

LC50 (rat) mg/kg:

Odour Threshold:

Permissible Exposure Limit:

TLV (ACGIH) :

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals				

6. PREVENTIVE MEASURES

Personal Protective Equipment : Wear full protective clothing and self-contained breathing apparatus.

Handling : All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

Storage : Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

Precautions :

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media : Flood with water.

Special Procedure : If material on fire or involved in fire: Dangerously explosive. Do not fight fires in a cargo of explosives. Evacuate area and let burn. Cool all affected containers with flooding quantities of water.

Unusual Hazards :

EXPOSURE: First Aid Measures:

Inhalation: Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Skin: Wash affected areas of skin and hair vigorously with soap and water. Dermal exposure is usually accompanied by a yellowish discoloration which does not have to be removed completely to prevent absorption.

Eyes: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

Ingestion: Seek medical assistance.

Antidotes / Dosages:

SPILLS :

Steps To Be Taken : Keep sparks, flames, and other sources of ignition away. Keep material out of water sources and sewers. Keep spilled material wet. Do not attempt to sweep up dry material.

Waste Disposal Method:

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA

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

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