

Common Name: **AMMONIUM MOLYBDATE**

Synonyms: Ammonium Paramolybdate; Diammonium Molybdate

CAS No: 13106-76-8

 Molecular Formula:  $(\text{NH}_4)_2\text{MoO}_4$ 

RTK Substance No: 0105

Description: White to colorless or greenish-yellow, odorless powder

## HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<b>2 - Health</b> <b>0 - Fire</b> <b>1 - Reactivity</b> DOT#: None ERG Guide #: None Hazard Class: None	Extinguish fire using an agent suitable for type of surrounding fire. <b>Ammonium Molybdate</b> itself does not burn. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Ammonia</i> and <i>Nitrogen Oxides</i> . Use water spray to keep fire-exposed containers cool.	<b>Ammonium Molybdate</b> is not compatible with ALKALI METALS (such as LITHIUM, SODIUM and POTASSIUM); OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); and MOLTEN MAGNESIUM.

## SPILL/LEAKS

## Isolation Distance:

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up and place into sealed containers for disposal.

DO NOT wash into sewer.

## PHYSICAL PROPERTIES

<b>Odor Threshold:</b>	Odorless
<b>Flash Point:</b>	Nonflammable
<b>Specific Gravity:</b>	1.4 (water = 1)
<b>Water Solubility:</b>	Soluble
<b>Molecular Weight:</b>	123.6

## EXPOSURE LIMITS

**OSHA:** 5 mg/m<sup>3</sup>, 8-hr TWA (as *Molybdenum*)

**ACGIH:** 0.5 mg/m<sup>3</sup>, 8-hr TWA (as *Molybdenum*)

The Protective Action Criteria values are:

 PAC-1 = 30.7 mg/m<sup>3</sup>

 PAC-2 = 51.1 mg/m<sup>3</sup>

 PAC-3 = 500 mg/m<sup>3</sup>

## PROTECTIVE EQUIPMENT

<b>Gloves:</b>	Nitrile and Natural Rubber
<b>Coveralls:</b>	Tyvek®
<b>Respirator:</b>	>0.5 mg/m <sup>3</sup> - full facepiece APR with High efficiency particulate filters >30 mg/m <sup>3</sup> - SCBA

## HEALTH EFFECTS

<b>Eyes:</b>	Irritation
<b>Skin:</b>	Irritation
<b>Inhalation:</b>	Nose and throat irritation with coughing and wheezing Headache, weakness, and fatigue

## FIRST AID AND DECONTAMINATION

**Remove** the person from exposure.

**Flush** eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

**Quickly** remove contaminated clothing and wash contaminated skin with large amounts of water.

**Begin** artificial respiration if breathing has stopped and CPR if necessary.

**Transfer** promptly to a medical facility.