

Common Name: **AMMONIUM METAVANADATE**

Synonyms: Ammonium Vanadate

CAS No: 7803-55-6

Molecular Formula: H₄NO₃V

RTK Substance No: 0104

Description: Clear, white or yellow, crystalline powder

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
2 - Health 0 - Fire 0 - Reactivity DOT#: UN 2859 ERG Guide #: 154 Hazard Class: 6.1 (Poison)	Extinguish fire using an agent suitable for type of surrounding fire. Ammonium Metavanadate itself does not burn. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Ammonia</i> , <i>Vanadium fumes</i> and <i>Nitrogen Oxides</i> . Use water spray to keep fire-exposed containers cool.	Ammonium Metavanadate is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); LITHIUM; and CHLORINE TRIFLUORIDE.

SPILL/LEAKS

Isolation Distance:

Spill: 50 meters (150 feet)

Fire: 800 meters (1/2 mile)

Collect powdered material in the most convenient and safe manner and place into sealed containers for disposal.

DO NOT wash into sewer.

PHYSICAL PROPERTIES

Flash Point: Nonflammable

Specific Gravity: 2.3 (water = 1)

Water Solubility: Slightly soluble

Boiling Point: 410°F (210°C) (Decomposes)

Melting Point: 392°F (200°C)

Molecular Weight: 117

EXPOSURE LIMITS

NIOSH: 0.05 mg/m³, 15-min Ceiling (as *Vanadium dust and fume*)

IDLH: 35 mg/m³ (as *Vanadium*)

PROTECTIVE EQUIPMENT

Gloves: Nitrile and Natural Rubber

Coveralls: Tyvek®

Respirator: <0.5 mg/m³ - Full facepiece APR with High efficiency particulate filter
>0.5 mg/m³ (as *Vanadium*) or potential exposure to *Ammonia* - Supplied air or SCBA

HEALTH EFFECTS

Eyes: Irritation

Skin: Irritation, rash and redness

Inhalation: Nose, throat and lung irritation with coughing and severe shortness of breath (pulmonary edema)

Headache, dizziness, nausea and vomiting

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 soap and water.

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

Transfer promptly to a medical facility.

Medical observation is recommended as symptoms may be delayed.