

**AMMONIUM VANADIUM OXIDE****1522**  
April 2005CAS No: 11115-67-6  
RTECS No: BT5140000  
UN No: 3285Vanadic acid, ammonium salt  
(NH<sub>4</sub>)<sub>2</sub>V<sub>6</sub>O<sub>16</sub>  
Molecular mass: 597.7

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>			
<b>Inhalation</b>	Cough. Laboured breathing.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
<b>Skin</b>	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>Eyes</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Abdominal pain. Nausea. Vomiting. Diarrhoea.	Do not eat, drink, or smoke during work.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give plenty of water to drink. Refer for medical attention.

**SPILLAGE DISPOSAL**

Personal protection: P3 filter respirator for toxic particles. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.

**PACKAGING & LABELLING**UN Hazard Class: 6.1  
UN Pack Group: II

Do not transport with food and feedstuffs.

**EMERGENCY RESPONSE**

Transport Emergency Card: TEC (R)-61GT5-II

**SAFE STORAGE**

Separated from food and feedstuffs. Store in an area without drain or sewer access.

## IMPORTANT DATA

**Physical State; Appearance**

ORANGE POWDER

**Chemical dangers**

On heating, toxic fumes are formed.

**Occupational exposure limits**

TLV not established.

MAK: Carcinogen category: 2; Germ cell mutagen group: 2; (DFG 2005).

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

**Inhalation risk**

A harmful concentration of airborne particles can be reached quickly when dispersed.

**Effects of short-term exposure**

The substance is irritating to the eyes, the skin and the respiratory tract. Inhalation of the dust may cause lung oedema (see Notes). The effects may be delayed. Medical observation is indicated.

**Effects of long-term or repeated exposure**

The substance may have effects on the respiratory tract, resulting in chronic rhinitis and chronic bronchitis.

## PHYSICAL PROPERTIES

Boiling point (decomposes): >350/C  
Density: 3.0 g/cm<sup>3</sup>

Solubility in water, g/100 ml at 20/C: 0.04 (poor)

## ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms.

## NOTES

The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential.

Health effects of exposure to the substance have not been investigated adequately.

See also ICSC 0455 Vanadium trioxide and 0596 Vanadium pentoxide.

Ammonium metavanadate NH<sub>4</sub>VO<sub>3</sub> has CAS 7803-55-6 and UN 2859, ammonium polyvanadate has UN 2861.

Card has been partly updated in October 2005. See section Occupational Exposure Limits.

## ADDITIONAL INFORMATION

## LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information