

# URANYL ACETATE

URA

## CAUTIONARY RESPONSE INFORMATION

Common Synonyms	Solid	Yellow	Slight vinegar odor
Bis (Acetate) dioxouranium Uranium acetate Uranium acetate dihydrate Uranium oxyacetate dihydrate Uranyl acetate dihydrate			
Sinks and mixes slowly with water.			
Keep people away. Avoid contact with solid and dust. Notify local health and pollution control agencies. Protect water intakes.			
Fire	Not flammable.		
Exposure	CALL FOR MEDICAL AID. DUST Irritating to eyes, nose and throat. If inhaled will cause coughing or difficult breathing. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.  SOLID Irritating to skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.		
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Dilute and disperse Stop discharge	<p>2.1 CG Compatibility Group: Not listed.          2.2 Formula: <math>\text{UO}_2(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 2\text{H}_2\text{O}</math>          2.3 IMO/UN Designation: Not listed          2.4 DOT ID No.: 9180          2.5 CAS Registry No.: 541-09-3          2.6 NAERG Guide No.: 162          2.7 Standard Industrial Trade Classification: 52511</p>
3. HEALTH HAZARDS	
3.1 Personal Protective Equipment: Approved dust respirator; goggles or face shield; protective clothing	
3.2 Symptoms Following Exposure: Inhalation of dust may irritate nose and throat. Contact with eyes causes irritation.	
3.3 Treatment of Exposure: Get medical attention after all exposures to this compound. INHALATION: move to fresh air. INGESTION: give large amount of water; induce vomiting. EYES: flush with water for at least 15 min. SKIN: flush with water.	
3.4 TLV-TWA: 0.2 mg/m <sup>3</sup> (as uranium) 3.5 TLV-STEL: 0.6 mg/m <sup>3</sup> (as uranium) 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 1; LD <sub>50</sub> = 5-15 g/kg 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: Currently not available 3.13 IDLH Value: 10 mg U/m <sup>3</sup> 3.14 OSHA PEL-TWA: 0.05 mg/m <sup>3</sup> (as uranium) 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA A EGL: Not listed	

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: Not flammable	7.1 Grades of Purity: Commercial; Reagent
4.2 Flammable Limits in Air: Not flammable	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Not pertinent	7.3 Inert Atmosphere: No requirement
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Open
4.5 Special Hazards of Combustion Products: Currently not available	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: Currently not available	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: Not pertinent	7.7 Barge Hull Type: Currently not available
4.8 Electrical Hazards: Not pertinent	
4.9 Burning Rate: Not pertinent	
4.10 Adiabatic Flame Temperature: Currently not available	
4.11 Stoichiometric Air to Fuel Ratio: Not pertinent	
4.12 Flame Temperature: Currently not available	
4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent	
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	
5. CHEMICAL REACTIVITY	8. HAZARD CLASSIFICATIONS
5.1 Reactivity with Water: Dissolves and reacts to give a milky solution. The reaction is not hazardous.	8.1 49 CFR Category: Radioactive material
5.2 Reactivity with Common Materials: Currently not available	8.2 49 CFR Class: 7
5.3 Stability During Transport: Stable	8.3 49 CFR Package Group: Not pertinent
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent	8.4 Marine Pollutant: No
5.5 Polymerization: Not pertinent	8.5 NFPA Hazard Classification: Not listed
5.6 Inhibitor of Polymerization: Not pertinent	8.6 EPA Reportable Quantity: 100 pounds
6. WATER POLLUTION	8.7 EPA Pollution Category: B
6.1 Aquatic Toxicity: 3.7 ppm/96 hr/fathead minnow/TL <sub>50</sub> /soft water	8.8 RCRA Waste Number: Not listed
6.2 Waterfowl Toxicity: Currently not available	8.9 EPA FWPCA List: Yes
6.3 Biological Oxygen Demand (BOD): Currently not available	
6.4 Food Chain Concentration Potential: Currently not available	
6.5 GESAMP Hazard Profile: Not listed	
9. PHYSICAL & CHEMICAL PROPERTIES	
9.1 Physical State at 15° C and 1 atm: Solid	
9.2 Molecular Weight: 424.2	
9.3 Boiling Point at 1 atm: Not pertinent (decomposes)	
9.4 Freezing Point: Not pertinent	
9.5 Critical Temperature: Not pertinent	
9.6 Critical Pressure: Not pertinent	
9.7 Specific Gravity: 2.89 at 20°C (solid)	
9.8 Liquid Surface Tension: Not pertinent	
9.9 Liquid Water Interfacial Tension: Not pertinent	
9.10 Vapor (Gas) Specific Gravity: Not pertinent	
9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent	
9.12 Latent Heat of Vaporization: Not pertinent	
9.13 Heat of Combustion: Not pertinent	
9.14 Heat of Decomposition: Not pertinent	
9.15 Heat of Solution: Not pertinent	
9.16 Heat of Polymerization: Not pertinent	
9.17 Heat of Fusion: Currently not available	
9.18 Limiting Value: Currently not available	
9.19 Reid Vapor Pressure: Currently not available	

## NOTES

# URANYL ACETATE

URA

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
NOT PERTINENT			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
62	8.400		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT