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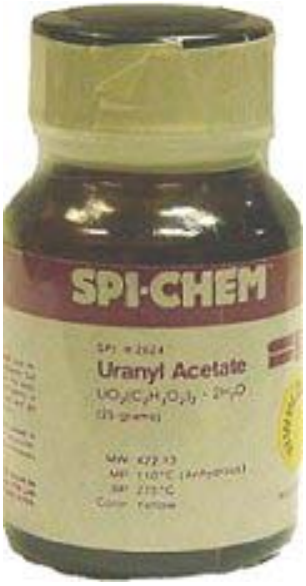
Material Safety Data Sheet

SPI #02624-AB SPI-Chem™ Uranyl Acetate

Section 01 Identification



Date Effective..... January 8, 2009
(most recent revision)

Chemical Name/Synonyms Uranyl Acetate Dihydrate
Bis(aceto)dioxouranium dihydrate
Bis(aceto-O)dioxouranium dihydrate

CAS# 6159-44-0
RTECS#: YR3600000

Emergencies Contacting CHEMTREC 24 Hour Emergency
Use Only #'s.... Worldwide phone : 1-(703)-527-3887
Worldwide FAX : 1-(703)-741-6090
Toll-free phone : 1-(800)-424-9300
USA only

Product or Trade Name.... SPI #02624-AB SPI-Chem™ Uranyl Acetate

Hazardous Material Information System USA	**Health**	**3**	**National Fire Protection Association USA**	
	Fire Hazard	**0**		
	Reactivity	**0**		
	Personal Protection	**0**		

NFPA Rating:
(estimated) Health: 3; Flammability: 0; Reactivity: 0

Section 2 Composition

Component Name	CAS #	Percent	EINECS/ELINCS
Uranyl acetate dehydrate	6159-44-0	~100	n/a

Section 3: Hazard Identification

Emergency overview:
Highly toxic (USA). Very Toxic (EU). Dangerous for the environment.
Very toxic by inhalation and if swallowed. Danger of cumulative effects.
Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Radioactive material.

Target Organs: Liver, Kidneys

Potential Health Effects

Eye: Absorption of soluble uranium compounds thorough eye tissue is reported.

Skin: No information found.

Ingestion: Toxic by ingestion

Inhalation: Moderate hazard on inhalation. Coughing, sneezing & breathing difficulty may occur.

Chronic: Damage to Kidneys & Liver may occur after continued exposure.

Section 4: First Aid Measures

Eyes: In case of eye contact, flush eyes with large amounts of water for at least 15 minutes, occasionally lifting upper and lower eyelids.

Skin: In case of skin contact, wash immediately with plenty of soap and water.

Ingestion: If person is conscious, wash out mouth with water. Seek medical attention.

Inhalation: If inhaled, remove to fresh air. If breathing

becomes difficult, seek medical attention.

Section 5: Fire Fighting Measures

General Information:
Emits toxic fumes under fire conditions. As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

Extinguishing Media:
Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Section 6: Accidental Release Measures

General Information:
Handle as a radioactive spill.

Spills/Leaks:
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling and Storage

Handling:
Avoid inhalation and contact with eyes, skin and clothing.
Avoid prolonged ore repeated exposure.

Storage:
Store in cool, dry place in tightly closed container.

Section 8: Exposure Controls and Personal Protection

Engineering Controls:
Safety shower and eye bath must be readily available. Use only in a chemical fume hood. Use with adequate ventilation.

Personal Protective Equipment

Eyes: Chemical safety goggles

Skin: Use chemical resistant gloves.

Clothing: Protective clothing such as long sleeves or a lab coat should be worn.

Respirators:
A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Section 9: Physical and Chemical Properties

Physical State: Solid
Appearance: Yellow crystals
Odor: slight odor of vinegar
pH: n/a
Vapor Pressure: n/a
Vapor Density: n/a
Evaporation Rate: n/a
Viscosity: n/a
Boiling Point: n/a
Decomposition temperature: 275°C
Freezing/Melting Point: 110°C
Autoignition Temperature: n/a
Flash Point: n/a
Decomposition Temperature: n/a
Explosion Limits
Lower: n/a
Upper: n/a

Solubility in water: 10% @ 20°C
Specific Gravity/Density: 2.89 g/cm^3
Molecular Formula: $C_4H_6O_6U \cdot 2H_2O$
Molecular Weight: 424.15

Section 10: Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid: Protect from moisture.

Incompatibility with Other Materials: Oxidizing agents

Hazardous Decomposition of Products: Carbon monoxide, Carbon dioxide, Uranium oxides.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

RTECS#: YR3600000

CAS#: 6159-44-0

LD_{50}/LC_{50} Information:

Oral, rat	LD50	204 mg/kg
Subcutaneous, rat	LD50	8300 ug/kg
Oral, mouse	LD50	242 mg/kg
Subcutaneous, mouse	LD50	20400 ug/kg

Carcinogenicity: Contains a radioactive isotope which may produce cancer.

OSHA: PEL: 8 H TWA 0.05 mg(U)/m3
USA MSHA Standard: air TWA 0.2 mg(U)/m3

Teratogenicity: Chronic exposure may lead to teratogenic effects.

Reproductive Effects: Chronic exposure may lead to reproductive effects.

Neurotoxicity: n/a

Mutagenicity: Chronic exposure may lead to mutagenic effects.

Section 12: Ecological Information

No data available.

Section 13: Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Dispose of spilled material as radioactive waste. Consult local, state, and federal regulation on the disposal of radioactive waste. Observe all federal, state, and local environmental regulations.

Section 14: Transport Information

Proper Shipping Name: Radioactive material, excepted package-limited quantity of material.

US DOT Hazard Class:

UN#: 2910
Hazard Class: 7
Packing Group: None
Hazard Label: None
PIH: Not PIH

IATA (for international shipments)

Proper Shipping Name: Radioactive material, excepted package, limited quantity of material
IATA UN Number: 2910
Hazard Class: 7

Section 15: Regulatory Information

United States:

Indication of Danger: Highly Toxic (USA) Very Toxic (EU)

TSCA:

This material is listed on the TSCA inventory

Health & Safety Reporting List: n/a

Chemical Test Rules: n/a

Section 12b: n/a

TSCA Significant New Use Rule: n/a

SARA: Not listed

OSHA:

PEL: 8 H TWA 0.05 mg(U)/m3

State (Individual states in the USA)
Not listed under individual state lists.

California Prop. 65:
This material is considered a carcinogen under California Prop. 65.

European/International Regulations:
European Labeling in Accordance with EC Directives

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Hazard Symbols: R – T+ - N
Risk Phrases:
        R26  Very toxic by inhalation
        R28  Very toxic if swallowed
        R33  Danger of cumulative effects
        R51  Toxic to aquatic organisms
        R53  May cause long-term adverse effects in the aquatic
                       environment

Safety Phrases:
        S20  When using do not smoke
        S21  Do not breathe dust
        S45  In case of accident or if you feel unwell, seek medical
                       advice immediately (show the label where possible)
        S61  Avoid release to the environment. Refer to special
                       instructions/Safety data sheets.
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Canada

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

WHMIS

This material has a WHMIS classification of D2A.

DSL/NDSL

DSL: yes
NDSL: no

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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Friday October 01, 2010
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