

SAFETY DATA SHEET

Preparation Date: 3/23/2017

Revision Date: 3/23/2017

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: U1010
Product Name: URANYL NITRATE, HEXAHYDRATE, CRYSTAL, REAGENT, ACS

Other means of identification

Synonyms: Dinitratodioxouranium hexahydrate
 Uranium, bis(nitrato-O)dioxo-, hexahydrate (T-4)- (9CI)
 Uranium, dinitratodioxo-, hexahydrate
 Uranyl dinitrate hexahydrate

CAS #: 13520-83-7
RTECS # YR3850000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000.

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)

Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Oxidizing solids	Category 2

Label elements

Danger

Hazard statements

Toxic if swallowed
 Toxic if inhaled

Product code: U1010

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May cause damage to organs through prolonged or repeated exposure
May intensify fire; oxidizer



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Radioactive

Toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Keep away from heat

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Keep/Store away from clothing and other combustible materials

Take any precaution to avoid mixing with combustibles

Wear eye/face protection

Wear protective gloves

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO₂ or Halon may provide limited control.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Uranyl Nitrate, Hexahydrate	13520-83-7	100

4. FIRST AID MEASURES

First aid measures

General Advice:

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.
Ingestion:	Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms	Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Burning sensation in the mouth and stomach. Sweating and flushing of skin. Dyspnea (Shortness of breath and difficulty breathing). May cause pulmonary edema. May cause muscle weakness. Dizziness. Exposure to nitrites/nitrates can cause gastroenteritis, abdominal pain, nausea, vomiting, diarrhea, metabolic acidosis, purging, methemoglobinemia, cyanosis, muscle weakness, dizziness, lightheadedness, loss of coordination, fatigue, headache, seizures, convulsions, dyspnea, dysrhythmias, coma, and death. Can affect the liver, metabolism(weight loss), blood (methemoglobinemia), cardiovascular system (bradycardia/tachycardia, hypotension, vasodilation, irregular heartbeat), kidneys.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician:	Treat symptomatically.
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Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media:	Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.
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Unsuitable Extinguishing Media:	Dry chemical. Foam. Halons.
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Specific hazards arising from the chemical

Hazardous Combustion Products:	No information available.
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Specific hazards:	Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or when heated.
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Special Protective Actions for Firefighters

Specific Methods:	For large fires, flood fire area with water from a distance. Cool affected containers with flooding quantities of water. Do not get water inside containers. DO NOT use combustible materials such as sawdust.
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from combustible material. Do not breathe dust. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Do not store near combustible materials. Store away from incompatible materials.

Incompatible Materials:

Combustible materials
Organic materials
Reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Product code: U1010

Product name: URANYL NITRATE,
HEXAHYDRATE, CRYSTAL,
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National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Uranyl Nitrate, Hexahydrate	13520-83-7	0.05 mg/m ³ TWA (as U)	0.05 mg/m ³ TWA (as U)	0.2 mg/m ³ TWA(as U) 0.6 mg/m ³ STEL	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Uranyl Nitrate, Hexahydrate	13520-83-7	0.2 mg/m ³ TWA(as U) 0.6 mg/m ³ STEL	0.05 mg/m ³ TWA (as U)	0.2 mg/m ³ TWA(as U) 0.6 mg/m ³ STEL	0.05 mg/m ³ TWA EV (as U)

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Uranyl Nitrate, Hexahydrate	13520-83-7	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:

Goggles

Skin and body protection:

Boots

Gloves

Periodic changes of gloves are recommended. The greater the potential hazard, the more frequent change of gloves is needed. Gloves should not be used to handle radioactive materials directly. When the gloves are no longer needed, they should be carefully removed, monitored and disposed or stored appropriately. Gloves should be monitored frequently. Don't use contaminated gloves or gloves that may be contaminated. If you are wearing gloves and they are exposed to radionuclides that emit penetrating radiation, remove the gloves as quickly as possible.

Disposable or cloth lab coat. Cloth lab coats may be reused if they are free from contamination and in good condition. Lab coats should be stored in a controlled area and should be monitored both during operations and after removing them. Particular attention should be paid to the sleeves, pockets, and lower front surfaces of the coat

Respiratory protection:

Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid	Appearance: Crystalline. Crystals.	Color: Yellow.
Odor: Odorless.	Taste No information available.	Formula: UO ₂ (NO ₃) ₂ ·6H ₂ O
Molecular/Formula weight: 502.13 g/mol	Flammability: No information available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): 60 °C/140 °F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): No information available	Bulk density: No information available	Density (g/cm³): No information available
Specific gravity: 2.81	pH: No information available	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: No information available	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available
Miscibility: No information available	Solubility: Soluble in mineral acids Soluble in Alkalis Soluble in Ethanol Soluble in Ether Soluble in Water Solubility in Water: 127 g/100 g @ 25 deg. C	

10. STABILITY AND REACTIVITY

Reactivity

Reacts with reducing agents
Contact with combustible materials (wood, paper, oil, clothing, etc.) may cause fire
It may be a fire risk in contact with organic materials

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Avoid dust formation. Contact with combustible materials (wood, paper, oil, clothing, etc.). Incompatible materials.

Incompatible Materials: Combustible materials
Organic materials

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Reducing agents

Hazardous decomposition products:

When heated to decomposition it emits toxic fumes. Nitrogen oxides (NOx).

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Uranyl Nitrate, Hexahydrate	
CAS-No.	13520-83-7

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = >500 mg/kg oral LD (Lethal Dose) Rat (for Uranyl nitrate, anhydrous CAS number 10102-06-4)

238 mg/kg oral LDL Cat (for uranyl nitrate hexahydrate)

12 mg/kg oral LDL Dog (for uranyl nitrate, hexahydrate)

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: U1010

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VALUE-Vapor = No information available
 VALUE - Gas = No information available
 VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation. May cause conjunctivitis.

Inhalation Toxic by inhalation. May cause irritation of respiratory tract. Symptoms may include burning sensation, coughing, sneezing, difficulty breathing and shortness of breath. It may cause pulmonary edema.

Ingestion Toxic if swallowed. Ingestion may cause nausea, vomiting. May cause diarrhea. May cause stomach cramping. Symptoms may include a burning sensation in the mouth, and stomach. May cause salivation. May cause flushing and sweating. May cause muscle weakness. May affect liver. May affect urinary system (kidneys). Ingestion of large doses of nitrates causes gastrointestinal tract irritation with nausea, vomiting, abdominal cramps, diarrhea (possibly bloody, from gastrointestinal hemorrhage). Under some circumstances, when the nitrate is converted by bacteria in the stomach to nitrite, it may also cause methemoglobinemia, cyanosis (a bluish discoloration of the skin due to deficient oxygenation of the blood), convulsions and death. Methemoglobinemia is characterized by dizziness, weakness, fatigue, convulsions (seizures), drowsiness, headache, shortness of breath, cyanosis, rapid heart rate (tachycardia) or slow heart rate (bradycardia), hypotension, chocolate brown colored blood, unconsciousness.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Chronic exposure may affect the liver and kidneys. Prolonged or repeated ingestion or inhalation may affect the brain (degenerative changes). This product is also a nitrate, therefore nitrate poisoning can occur. Prolonged or repeated nitrate ingestion may affect the urinary system (kidneys) and also may affect the blood, resulting in methemoglobin with attendant cyanosis, anorexia, hyperpnea and later dyspnea and chocolate brown colored blood. The primary toxic effects of nitrates include orthostatic hypotension and methemoglobinemia, Other symptoms include muscular weakness, dizziness, lightheadedness, fatigue, throbbing headache, mental impairment, incoordination, seizures, and convulsions, bradycardia or tachycardia, dysrhythmias, dyspnea. Prolonged or repeated ingestion of large amounts of nitrates may affect the liver and can cause gastroenteritis, nausea, vomiting, abdominal pain, weight loss. Possible coma and death. Prolonged or repeated ingestion may affect the bone marrow. Prolonged or repeated inhalation may affect the bone marrow (changes in bone marrow).

Sensitization: No information available.

Mutagenic Effects: Contains a radioactive isotope which may produce genetic mutation

Carcinogenic effects: Contains a radioactive isotope which may produce cancer.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic	Australia - Prohibited Carcinogenic

						Substances	Substances
Uranyl Nitrate, Hexahydrate	13520-83-7	Not listed	A1 - Confirmed Human Carcinogen (listed as uranium soluble and insoluble compounds)	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.
STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.
Target Organs: Liver. Blood. Respiratory system. Kidneys. Bone Marrow.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.
Persistence and degradability: No information available
Bioaccumulative potential: No information available.
Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Uranyl Nitrate, Hexahydrate	13520-83-7	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (uranyl nitrate, hexahydrate)
Hazard Class: 5.1
Subsidiary Class: 7 (limited quantity radioactive)
Packing group: II
Emergency Response Guide Number: 140; 162
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: IB8, IP2, IP4, T3, TP33
Symbol(s): No information available
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II

TDG (Canada)

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (uranyl nitrate, hexahydrate)
Hazard Class: 5.1
Subsidiary Risk: 7 (limited quantity radioactive)
Packing Group: II
Marine Pollutant: No Information available
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II

ADR

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (uranyl nitrate, hexahydrate)
Hazard Class: 5.1
Packing Group: II
Subsidiary Risk: 7 (limited quantity radioactive)
Special Provisions: 511
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II, ENVIRONMENTALLY HAZARDOUS

IMO / IMDG

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (uranyl nitrate, hexahydrate)
Hazard Class: 5.1
Subsidiary Risk: 7 (limited quantity radioactive)
Packing Group: II
Marine Pollutant: No information available
EMS: F-A
Description: UN1477, Nitrates, inorganic, n.o.s. (URANYL NITRATE, HEXAHYDRATE), 5.1, II, Marine pollutant

RID

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (uranyl nitrate, hexahydrate)
Hazard Class: 5.1
Subsidiary Risk: 7 (limited quantity radioactive)
Packing Group: II
Special Provisions: 511
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II, ENVIRONMENTALLY HAZARDOUS

ICAO

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (uranyl nitrate, hexahydrate)
Hazard Class: 5.1
Subsidiary Risk: 7 (limited quantity radioactive)

Product code: U1010**Product name:** URANYL NITRATE,
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Packing Group: II
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II
Special Provisions A3

IATA

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (uranyl nitrate, hexahydrate)
Hazard Class: 5.1
Subsidiary Risk: 7 (limited quantity radioactive)
Packing Group: II
ERG Code: 5L
Special Provisions No information available
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Uranyl Nitrate, Hexahydrate	13520-83-7	Not Listed	Not present	Present	Not present	Present[35629]	Present	Not present

U.S. Regulations

Uranyl Nitrate, Hexahydrate

New Jersey RTK Hazardous Substance List: sn 1980 (for uranyl nitrate, hexahydrate)
 sn3722 (for nitrate compounds)

New Jersey (EHS) List: SN 3722 500lb. TPQ (for nitrate compounds)

Minnesota - Hazardous Substance List: Present (uranium soluble compounds)

California Directors List of Hazardous Substances: Present (listed as Uranium soluble and insoluble compounds)

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Uranyl Nitrate, Hexahydrate	13520-83-7	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Uranyl Nitrate, Hexahydrate	13520-83-7	None	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Uranyl Nitrate, Hexahydrate	13520-83-7	Not Applicable	Not Applicable

Product code: U1010

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Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information: The classification of this product has not been validated yet

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

The classification of this product has not been validated yet

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Uranyl Nitrate, Hexahydrate	13520-83-7	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Uranyl Nitrate, Hexahydrate	13520-83-7	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Uranyl Nitrate, Hexahydrate	13520-83-7	Not listed

EU Classification

EU GHS - SV - CLP 172/2008

Components	CAS-No.	EU GHS - SV - CLP (172/2008)
Uranyl Nitrate, Hexahydrate	13520-83-7	Acute toxicity - Oral Acute Tox. 2; H300 Fatal if swallowed. (Minimum classification, except those specified elsewhere in this Annex); Acute toxicity - Inhalation - Acute Tox. 2: H330 Fatal if inhaled; Specific target organ toxicity - Repeated exposure - STOT 2: May cause damage through prolonged or repeated exposure; Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects (except those specified elsewhere in this Annex)

EU - CLP (1272/2008)

R-phrases(s)

R33 - Danger of cumulative effects.

R51 - Toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

R26/28 - Very toxic by inhalation and if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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S -phrase(s)

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.

S 1/2 - Keep locked up and out of the reach of children.

S20/21 - When using, do not eat, drink or smoke.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Uranyl Nitrate, Hexahydrate	13520-83-7	T+; R26/28-33 N; R51-53	No information	S:(1/2)-20/21-45-61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T+ - Very toxic.

N - Dangerous for the environment.

T+



N

**16. OTHER INFORMATION**

Preparation Date: 3/23/2017
Revision Date: 3/23/2017
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet