

## SAFETY DATA SHEET

**Product Identifier: MIBItag Conjugation Kit (In)**

**Catalog ID number: 600113, 600115**

### SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Contact information

<b>General</b>	IONpath, Inc. 960 O'Brien Dr., Menlo Park, CA 94025 Main (U.S.): +1 (833) IONPATH (466-7284) E-mail: techsupport@IONpath.com
<b>Emergency telephone number</b>	CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

<b>Product identifier</b>	MIBItag Conjugation Kit (In)
<b>Synonyms</b>	None identified
<b>Trade names</b>	None identified
<b>Chemical family</b>	Lanthanide component Mixture - contains nitric acid and metal lanthanide Stabilization Buffer component Mixture – contains sodium azide Polymer component – contains diethylenetriaminepentaacetic acid

**Relevant identified uses of the substance or mixture and uses advised against** For research use only. Not for use in diagnostic procedures.

**Note** This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

### SECTION 2 - HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

<b>Globally Harmonized System [GHS]</b>	Lanthanide Metal Mixture: Indium (III) Chloride Acute toxicity, Oral (Category 4), H302 Skin Corrosion (Category 1B), H314 Serious eye damage (Category 1), H318  Polymer component: diethylenetriaminepentaacetic acid: Acute toxicity, Inhalation (Category 4), H332 Eye irritation (Category 2A), H319 Reproductive toxicity (Category 2), H361d Specific target organ toxicity – repeated exposure, Inhalation (Category 2), Respiratory Tract, H373  All other components: Not classified.
<b>AU Hazard Classification (NOHSC)</b>	Hazardous Substance. Non-hazardous goods.

#### Label elements

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**GHS hazard pictogram**

Lanthanide Metal Mixture: Indium (III) Chloride



Polymer component -- diethylenetriaminepentaacetic acid:



All other components: None required

**GHS signal word**

Lanthanide Metal Mixture: Indium (III) Chloride

Warning

Polymer component -- diethylenetriaminepentaacetic acid:

Warning

All other components: None required

**GHS hazard statements**

Lanthanide Metal Mixture: Indium (III) Chloride

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Polymer component: diethylenetriaminepentaacetic acid:

H319 Causes eye irritation.

H332 Harmful if inhaled.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure.

All other components: None required

**GHS precautionary statements**

Lanthanide Metal Mixture: Indium (III) Chloride

P260 Do not breathe dust or mist.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN: Remove immediately all contaminated clothing. Rinse Skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

P363 Wash contaminated clothing before reuse.

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Polymer component: diethylenetriaminepentaacetic acid:  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 Wash skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection.  
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a Poison Center / doctor if person is feeling unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 IF exposed or concerned: Get medical advice/attention.  
 P337 + P313 IF eye irritation persists: Get medical advice/attention.  
 P501 Dispose of contents/container to an approved waste disposal plant.

All other components: None required

**Other hazards**

Stabilization Buffer component Mixture - contains sodium azide. The most common adverse effects reported with exposure to sodium azide include dizziness, headache, nausea and vomiting, rapid breathing and heart rate, restlessness, weakness, runny nose, cough, and red eyes. Overexposure to sodium azide may cause convulsions, low blood pressure, loss of consciousness, lung injury, reduced heart rate, and potentially fatal respiratory failure. Inhalation of sodium azide may cause respiratory irritation.

Other components - May cause eye/skin irritation. Mixtures not yet fully tested

**Note**

The mixtures are not classified as hazardous according to Regulation EC No 1272/ 2008 (EU CLP) and Hazard Communication Standard No. 1910.1200 (US OSHA). The pharmacological, toxicological and ecological properties of this mixture have not been fully characterized.

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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS/ ELINCS#</u>	<u>Amount</u>	<u>GHS Classification</u>
<u>Lanthanide Metal Mixture:</u>				
Indium (III) Chloride	10025-82-8	N/A	1.1%	Acute Tox 4; Skin Corr. 1B; Eye Dam. 1 ; H302, H314, H318
Ammonium Acetate	631-61-8	211-162-9	<1%	EI2: H319; AA3: H402
<u>Stabilization Buffer Mixture:</u>				
Sodium Azide	26628-22-8	247-852-1	<0.1%	ATO2: H300; AA1: H400; CA1: H410; EUH032
<u>Polymer Component:</u>				
Diethylenetriaminepentaacetic acid	67-43-6	200-652-8	60-70%	Acute Tox 4; Eye Irritant 2A; Repr. 2 ; STOT RE 2 ; H319, H332, H361D, H373

**Note**

Ammonium acetate, Indium (III) Chloride and sodium azide are considered hazardous but are present at amounts below reportable limits. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

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**SECTION 4 - FIRST AID MEASURES**

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Description of first aid measures

<b>Immediate Medical Attention Needed</b>	Yes
<b>Eye Contact</b>	If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Skin Contact</b>	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Inhalation</b>	Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.
<b>Ingestion</b>	Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.
<b>Protection of first aid responders</b>	See Section 8 for Exposure Controls/Personal Protection recommendations.

**Most important symptoms and effects, both acute and delayed** See Sections 2 and 11.

**Indication of immediate medical attention and special treatment needed, if necessary** Stabilization Buffer contains low levels of sodium azide. Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively. All other components: No data available.

**SECTION 5 - FIREFIGHTING MEASURES**

<b>Extinguishing media</b>	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
<b>Specific hazards arising from the substance or mixture</b>	No information identified. May emit carbon monoxide, carbon dioxide, nitrogen-, chloride-, and metal-containing compounds.
<b>Flammability/Explosivity</b>	Not expected to be flammable or explosive.
<b>Advice for firefighters</b>	Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures</b>	If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe mist/vapors/spray.
<b>Environmental precautions</b>	Do not empty into drains. Avoid release to the environment.
<b>Methods and material for containment and cleaning up</b>	If vials are crushed or broken, DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, soak up material with absorbent, e.g., paper towels or sweep without creating dust. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent or sweep without creating dust. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice.
<b>Reference to other sections</b>	See Sections 8 and 13 for more information.

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### SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling** Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid breathing vapor or mist. Do not permit eating/drinking/smoking near this material. All materials used for transferring or preparing this product must be considered contaminated and disposed of properly.

**Conditions for safe storage including any incompatibilities** Keep from contact with clothing and other combustible materials. Store components at temperatures designated on their individual component labels. Avoid strong oxidizers. Store in tightly sealed containers that are appropriately labeled. Do not store in metal or glass containers. Do not store in direct sunlight. Do not store near organic substances.

**Specific end use(s)** No information identified.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Note** Dispose of broken vials/syringes in a sharps container.

**Control Parameters/Occupational Exposure Limit Values**

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Indium (III) Chloride	--	--	--
Ammonium Acetate	--	--	--
Sodium Azide	ACGIH, Australia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, U.S.- California OSHA, United Kingdom	OEL-STEL	0.3 mg/ml <sup>3</sup>
	New Zealand, Portugal	Ceiling	0.29 mg/m <sup>3</sup>
	ACGIH, Australia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, U.S.- California OSHA, United Kingdom	OEL-TWA	0.1 mg/m <sup>3</sup>
	NIOSH, U.S.- California OSHA	Ceiling	0.3 mg/m <sup>3</sup>
	Germany	OEL-STEL	0.4 mg/m <sup>3</sup>
	Germany	OEL-TWA	0.2 mg/m <sup>3</sup>
Diethylenetriaminepentaacetic acid	--	--	--

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<b>Exposure/Engineering controls</b>	Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at mist/ aerosol/spray-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling. High- energy operations such as spraying or fluidizing should be done within an approved emission control or containment system.
<b>Respiratory protection</b>	Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. For routine handling tasks, an approved and properly fitted air-purifying respirator with appropriate HEPA filters should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls. Use a powered air-purifying respirator equipped with appropriate HEPA filters or combination filters or a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, when exposure levels are not known, or in any other circumstances where a lower level of respiratory protection may not provide adequate protection.
<b>Hand protection</b>	Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.
<b>Skin protection</b>	Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.
<b>Eye/face protection</b>	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
<b>Environmental Exposure Controls</b>	Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.
<b>Other protective measures</b>	Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

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### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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#### Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquids or powder
<b>Color</b>	Colorless
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No information identified.
<b>pH</b>	No information identified.
<b>Melting point/freezing point</b>	No information identified.
<b>Initial boiling point and boiling range</b>	No information identified.
<b>Flash point</b>	No information identified.

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Evaporation rate	No information identified.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	No information identified.
Vapor pressure	No information identified.
Vapor density	No information identified.
Relative density	No information identified.
Water solubility	Fully soluble in water.
Solvent solubility	No information identified.
Partition coefficient ( <i>n</i> -octanol/water)	No information identified.
Auto-ignition temperature	No information identified.
Decomposition temperature	No information identified.
Viscosity	No information identified.
Explosive properties	No information identified.
Oxidizing properties	No information identified.

## Other information

Molecular weight	Not applicable (Mixture)
Molecular formula	Not applicable (Mixture)

## SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Not expected to be reactive.
Chemical stability	Stable under normal handling and storage conditions.
Possibility of hazardous reactions	Not expected to occur.
Conditions to avoid	Keep away from incompatible materials.
Incompatible materials	Strong oxidizers.
Hazardous decomposition products	Hydrogen chloride gas, metal oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

## Information on toxicological effects

Route of entry May be absorbed by inhalation, skin contact and ingestion.

## Acute toxicity

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dose</u>
Indium (III) Chloride	LD <sub>50</sub>	Oral	Rat	1,100 mg/kg
Ammonium Acetate	LD <sub>50</sub>	Intravenous	Mice	98 mg/kg

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	LD50	Intraperitoneal	Rat	632 mg/kg
	LD50	Intraperitoneal	Mice	736 mg/kg
Sodium Azide	LD50	Oral	Rat	27 mg/kg
	LD50	Oral	Mouse	27 mg/kg
	LD50	Dermal	Rabbit	20 mg/kg
Diethylenetriaminepentaacetic acid	LD50	Oral	Rat	>2,000 mg/kg

<b>Irritation/Corrosion</b>	<p>Polymer component: Diethylenetriaminepentaacetic acid Skin – Rabbit Result: No skin irritation</p> <p>Eye – Rabbit Result: Eye irritation</p> <p>All other components: No studies identified.</p>
<b>Sensitization</b>	<p>Polymer component: Diethylenetriaminepentaacetic acid Buehler Test – Guinea pig Did not cause sensitization on lab animals. (OECD Test Guidelines 406)</p> <p>All other components: No studies identified.</p>
<b>STOT-single exposure</b>	No studies identified.
<b>STOT-repeated exposure/Repeat-dose toxicity</b>	No studies identified.
<b>Reproductive toxicity</b>	<p>No studies identified.</p> <p>Polymer component: Diethylenetriaminepentaacetic acid is a suspected human reproductive toxicant suspected of damaging the unborn child.</p>
<b>Developmental toxicity</b>	<p>Polymer component: Diethylenetriaminepentaacetic acid Rat – Oral Specific Developmental Abnormalities: Musculoskeletal system.</p> <p>All other components: No studies identified.</p>
<b>Genotoxicity</b>	No studies identified.
<b>Carcinogenicity</b>	No studies identified. The ingredients in these mixtures are not listed by NTP, IARC, ACGIH or OSHA as a carcinogen.
<b>Aspiration hazard</b>	No data available.
<b>Human health data</b>	See Section 2 - "Other hazards"

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### SECTION 12 - ECOLOGICAL INFORMATION

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#### Toxicity

<u>Compound</u>	<u>Type</u>	<u>Species</u>	<u>Concentration</u>
Indium (III) Chloride	--	--	--



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Ammonium Acetate	LC <sub>50</sub> /48h	Cyprinus carpio	1.06 mg/L
Sodium Azide	LC <sub>50</sub> /96h	Oncorhynchus mykiss	0.8 mg/L
	LC <sub>50</sub> /96h	Lepomis macrochirus	0.7 mg/L
	LC <sub>50</sub> /96h	Pimephales promelas	5.46 mg/L
Diethylenetriaminepentaacetic acid	LC <sub>50</sub> /96h	Leuciscus idus	>100 mg/L
	EC <sub>50</sub> /48h	Daphnia	245 mg/L

**Persistence and Degradability** Polymer component: Diethylenetriaminepentaacetic acid  
 Biodegradability Biotic/Aerobic – Exposure time 28d  
 Result: 20 – 60% -- According to the results of tests this product is not readily biodegradable

All other components: No data identified.

**Bioaccumulative potential** Polymer component: Diethylenetriaminepentaacetic acid  
 Indication of bioaccumulation.

All other components: No data identified.

**Mobility in soil** No data identified.

**Results of PBT and vPvB assessment** Not performed.

**Other adverse effects** No data identified.

**Note** The environmental characteristics of this product/mixtures have not been fully investigated. The above data are for the active ingredients and/or any other ingredient(s) where applicable. Although present at low concentrations, disposal should consider that sodium azide is present. Releases to the environment should be avoided.

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### SECTION 13 - DISPOSAL CONSIDERATIONS

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**Waste treatment methods** Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on- site wastewater treatment facility.

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### SECTION 14 - TRANSPORT INFORMATION

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**Transport** Indium (III) Chloride provided at limited quantity excepted. Based on the available data, the remaining product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.

**UN number** None assigned.

**UN proper shipping name** None assigned.

**Transport hazard classes and packing group** None assigned

**Environmental hazards** Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.

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**Special precautions for users** Avoid release to the environment. No other special precautions needed.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

**Hazardchem Code/HIN** None assigned.

### SECTION 15 - REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture** This SDS complies with the requirements under US, EU and GHS (EU CLP - Regulation EC No 1272/2008) guidelines. Consult your local/regional authorities for more information.

**Chemical safety assessment** Not conducted.

**WHMIS classification** Not classified.

**TSCA status** Indium (III) chloride is not listed. Ammonium acetate and Sodium azide are listed.

**SARA section 313** Sodium azide is listed.  
All other components: Not listed.

**California proposition 65** Not listed.  
**Component Analysis – State** Indium (III) chloride is listed as Right-to-Know in NJ and PA.  
Ammonium acetate is listed as hazardous in CA, HI, MA, NJ, and PA.  
Sodium azide is listed as hazardous in CA, HI, MA, MN, NJ, PA, RI, VT and WA.

**Component Analysis – Chemical Inventory** Indium is listed in the chemical inventory of the following countries: Australia, Canada, China, EU, Korea, New Zealand, Philippines, Taiwan and USA  
Ammonium acetate is listed in the chemical inventory of the following countries: Australia, Canada, China, EU, Japan, Korea, New Zealand, the Philippines, Taiwan and USA  
Sodium Azide is listed in the chemical inventory of the following countries: Australia, Canada, China, EU, Japan, Korea, New Zealand, the Philippines and USA

**Additional information** No other information identified.

### SECTION 16 - OTHER INFORMATION

NFPA Ratings	Indium (III) chloride	Health: 3	Fire: 0	Reactivity: 0
		Ammonium acetate	Health: 2	Fire: 1
	Sodium Azide	Health: 3	Fire: 0	Reactivity: 2
	Diethylenetriaminepentaacetic acid	Health: 2	Fire: 1	Reactivity: 0

**Sources of data** Information from published literature and internal company data.

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**Abbreviations**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CA - California; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; HI - Hawaii; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; MA - Massachusetts; NIOSH - The National Institute for Occupational Safety and Health; NJ - New Jersey; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PA - Pennsylvania; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; US - United States; WHMIS - Workplace Hazardous Materials Information System

**Issue Date**

02 AUG 2018

**Revisions**

This is the first version of this SDS.

**Disclaimer**

The statements contained herein are offered for informational purposes only and are based upon our present state of knowledge. It is applicable to the product with regard to appropriate safety precautions. IONpath Inc. believes them to be accurate at the date of publication, but does not purport to be all-inclusive and shall be used only as a guide. The above-stated product is intended for use only by persons having the necessary technical skills and facilities for handling the product at their discretion and risk. Since conditions and manner of use are outside our control, we (IONpath Inc.) make no warranty of merchantability or any such warranty, express or implied with respect to information and we assume no liability resulting from the above product or its use. Users should perform their own investigations to determine suitability of information and product for their particular purposes.