

# Safety Committee Meeting Minutes

DATE: January 22, 2018

## OPERATIONAL BUSINESS

<b>Topic:</b>	Attendance		
<b>Members Present:</b>	<input checked="" type="checkbox"/> (C) Betty Lunceford <input checked="" type="checkbox"/> (NT) Maria Ales <input type="checkbox"/> Chuck Davis <input checked="" type="checkbox"/> Erik Davis <input checked="" type="checkbox"/> Dave Ernevad <input checked="" type="checkbox"/> Michael Faucette	<input checked="" type="checkbox"/> Cecilia Jimenez <input type="checkbox"/> Kerry Kakigi <input type="checkbox"/> Theryn Kigvamasudvashti <input type="checkbox"/> Frank Mestemacher <input checked="" type="checkbox"/> Krystal Nash <input type="checkbox"/> Erik Oberholtzer	<input checked="" type="checkbox"/> Hisham Othman <input type="checkbox"/> Adam Russell <input type="checkbox"/> Shiro Vance <input checked="" type="checkbox"/> Tracey Yorker <input checked="" type="checkbox"/> Quorum Attained*
<b>Meetings Type:</b>	<input type="checkbox"/> Conference Call	<input checked="" type="checkbox"/> In Person: BE 4180A	
<b>Guests:</b>			

\* Quorum is attained at 6 members – at least 1 employer-selected AND an equal or greater number of employees to students.

<b>Topic:</b>	Call to Order
<b>Discussion:</b>	Betty Lunceford welcomed everyone and brought the meeting to order at approximately 2:03pm.

<b>Topic:</b>	Approval of Minutes		
<b>Discussion:</b>	Members approved the December 11 <sup>th</sup> minutes, including the changes		
<b>Referred to:</b>			
<b>Status:</b>	<input type="checkbox"/> Open	<input checked="" type="checkbox"/> Closed	<input type="checkbox"/> Tabled

## STANDING AGENDA

<b>Topic:</b>	Standing Agenda Items
<b>Discussion:</b>	<ol style="list-style-type: none"> <li>1. Review health and safety inspection reports to help correct hazards.             <ul style="list-style-type: none"> <li>- No new information since last meeting.</li> </ul> </li> <li>2. Evaluate incident and hazard reports/investigations conducted since last meeting and determine if the cause(s) of the unsafe situation(s) was identified and corrected.             <ul style="list-style-type: none"> <li>- 3 incidents since December meeting (Report at end of minutes).                 <ul style="list-style-type: none"> <li>o Student experienced fumes in Chemistry Lab. No lasting effects.</li> <li>o Employee reported injury while driving campus vehicle. Incident happened in Dec. There was a lapse in reporting.</li> <li>o Employee reported injured finger. Was a bruise/finger was pulled away from hand.</li> </ul> </li> <li>- Reviewed report data from 2016/17 year. Viewed and discussed synopsis of report and Krystal asked for feedback on categories.</li> </ul> </li> <li>3. Evaluate Employee Health and Safety Plan and discuss recommendations for improvement, if needed. This includes the discussion of department and campus-specific safety plans.             <ul style="list-style-type: none"> <li>- Krystal has taken the report to various groups and gathered feedback. She plans to take to the President's cabinet and EPAC.</li> <li>- Proposal to have Krystal do presentation for our group</li> <li>- Recommendation to propose Central as a Guinea pig and ask District to sponsor.</li> </ul> </li> </ol>



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<b>Action:</b>	Committee feedback on Krystal's incident reporting. Specifically the categories.		
<b>Referred to:</b>			
<b>Status:</b>	<input checked="" type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> Tabled

## UPDATES

<b>Topic:</b>	Updates – AED		
<b>Discussion:</b>	<p>Update action item from December 11<sup>th</sup> meeting.</p> <ul style="list-style-type: none"> <li>- Manufacturer Cardiac Science – device has 7 yr warranty</li> <li>- Last year did a walk thru and accessed the current locations and accessibility. Suggestions were made regarding locations and additions.</li> <li>- Website has location breakdown.</li> <li>- Discussion – BPH, FA and Erikson Theater currently have no AED devices.</li> </ul> <p>Discussion</p> <ul style="list-style-type: none"> <li>- Recommendation to get a mobile response device for security.</li> <li>- To reevaluate the current locations and ease of access. Due to cost, possibly move devices to center of corridor in common position on campus. Box and alarm devices.</li> </ul>		
<b>Action:</b>	9 devices will need batteries, 3 pads and we need inspection tags.		
<b>Referred to:</b>	Krystal Nash		
<b>Status:</b>	<input checked="" type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> Tabled

<b>Topic:</b>	Updates – OSHA/WISHA Update		
<b>Discussion:</b>	<p>Better ways to gather and use data</p> <ul style="list-style-type: none"> <li>- Fact sheet regarding improved root cause analysis</li> <li>- Strategies – creative solutions on messaging how to improve reporting.</li> <li>- Goal – work on closing loop for better reporting.</li> <li>- How to more effectively look at reporting and data.</li> </ul>		
<b>Action:</b>			
<b>Referred to:</b>	Krystal Nash		
<b>Status:</b>	<input type="checkbox"/> Open	<input checked="" type="checkbox"/> Closed	<input type="checkbox"/> Tabled

## NEW & CONTINUED BUSINESS

<b>Topic:</b>	New Business – Emergency Preparedness		
<b>Discussion:</b>	<p>Emergency Preparedness - Evacuation drill taken over by Safety and Security. Discussion – this falls under another committee. This should go to the new Director of Safety and Security once that position has been filled.</p>		
<b>Action:</b>	Emergency Preparedness - Evacuation drill taken over by Safety and Security		
<b>Referred to:</b>	New Director once hired		
<b>Status:</b>	<input checked="" type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> Tabled



# Safety Committee Meeting Minutes

<b>Topic:</b>	New Business – DES survey		
<b>Discussion:</b>	Proposal to create similar survey – gather accurate data. Possibly getting access to data from current survey		
<b>Action:</b>			
<b>Referred to:</b>			
<b>Status:</b>	<input type="checkbox"/> Open	<input type="checkbox"/> Closed	<input checked="" type="checkbox"/> Tabled

<b>Topic:</b>	New Business – Area of Refuge Signage		
<b>Discussion:</b>	Installed 2 <sup>nd</sup> week of December. Signage is ADA compliant.		
<b>Action:</b>			
<b>Referred to:</b>			
<b>Status:</b>	<input type="checkbox"/> Open	<input checked="" type="checkbox"/> Closed	<input type="checkbox"/> Tabled

<b>Topic:</b>	New Business – Maritime Homeless issue		
<b>Discussion:</b>	<ul style="list-style-type: none"> <li>- Homeless have setup outside of Maritime facility. There are 7 to 10 trailers setup and parked. Illegal activity is visible and concerning. The police are not following up.</li> <li>- Concern for Safety of staff and students. Contractors also concerned.</li> </ul> Possible solutions – <ul style="list-style-type: none"> <li>- Custodial cleanup of garbage and other debris</li> <li>- Better lighting and cameras installed.</li> <li>- Request to have President involved in solution</li> <li>- Possibly install a Honey Bucket</li> </ul>		
<b>Action:</b>	Dave Ernevad – will look into installing lighting and cameras		
<b>Referred to:</b>			
<b>Status:</b>	<input checked="" type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> Tabled

<b>Topic:</b>	New Business – Meeting contain a Safety Topic		
<b>Discussion:</b>	Discussions revolving around setting aside time at every meeting where a topic of safety is discussed or some sort of training takes place. The idea is that a culture of safety is fostered. The committee will take back information to our respected areas.		
<b>Action:</b>			
<b>Referred to:</b>			
<b>Status:</b>	<input checked="" type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> Tabled

## OPERATIONAL BUSINESS CONTINUED

<b>Topic:</b>	Closing & Adjournment		
<b>Discussion:</b>	The committee concluded discussion.		
<b>Action:</b>	The meeting adjourned at approximately 2:46pm.		
<b>Next Meeting:</b>	The next meeting is scheduled for Monday, February 12, 2018 at 1:00pm in 4180A.		



# Monthly Incident Report

Type of Report		Jan 2018 – 01/12/2018	Employee	Student	Visitor	EHS	Anon.
16	Chemical Exposure	1	0	1	0	0	0
<b>TOTAL</b>		<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

Location of Incident/Reported Hazard			
1	Broadway Campus	1	<b>Jan - 1</b>
<b>TOTAL</b>		<b>1</b>	

	EHSP Classification	Description
1	Near-miss	<p>Student was exposed to a chemical during their organic chemistry course. Either sodium iodide in acetone or silver nitrate in ethanol (the acetone or ethanol caused the exposure incident). A small amount of the chemical was removed from the fume hood and placed next to the exposed student. They reported narcotic, over-exposure effects – i.e. light-headedness, slight disorientation – as well as tightness in their chest. All impact was acute; no lasting damage or injury to student.</p> <ul style="list-style-type: none"> <li>- Days between incident and report: 0 (Reported the same day.)</li> <li>- Safety data sheets for both mixtures are attached.</li> </ul>
<i>From 2017:</i>		
1	Minor Injury	<p>Employee driving a college vehicle when it was struck from behind. Resulting injury was “back pain.”</p> <ul style="list-style-type: none"> <li>- No incident report is on file for this. The incident occurred on 7/27/2017.</li> <li>- The College was notified via workers’ compensation paperwork from Labor and Industries at the end of December 2017.</li> <li>- Days between incident and report: 174 (as of 1/12/2018)</li> </ul>
2	Near-miss	<p>Employee was moving a box when the cardboard broke and caught their middle, right finger. The weight of the box pushed down on their finger and pulled the digit away from their hand.</p> <ul style="list-style-type: none"> <li>- They reported the incident to their supervisor when it happened (12/19/17) but did not fill out an IR because they did not believe there was an injury.</li> <li>- The IR (submitted 1/10/18) was later submitted due to pain in the hand and tenderness that made it difficult to complete routine tasks.</li> <li>- Days between incident and report: 21</li> </ul>

**Follow-up/Resolution:**

EHS has requested an Incident Report for the response to the BE flood but has not received documentation to date (approximately 14 weeks post-incident). Associated reports from employees involved in the clean-up/repairs that were exposed to propylene glycol were requested and one employee has completed an IR.



# Monthly Incident Report

1. **Major Injury:** an injury sustained that results in a fatality, in-patient hospitalization, amputation, or loss of eye(s).
2. **Minor Injury:** an injury sustained that requires emergency medical treatment that could include, but is not limited to, a bone break or fracture, burn, or laceration; or an injury that required a visit to an employee's personal doctor or an out-patient clinic.
3. **Work-Related Illness:** includes both acute and chronic illness due to a chemical or environmental exposure at work that could include, but is not limited to, skin disease, respiratory disorder, or poisoning.
4. **Near-miss:** an incident that could have resulted in injury or resulted in injury that either did not need medical treatment or could be self-treated with the contents of a workplace first aid kit.
5. **Workplace Hazard:** any condition or process identified by an individual that has either immediate or future potential to cause a workplace injury, illness, or near-miss.

## Safety Data Sheet

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation:** Sodium Iodide, 10% (w/v) in Acetone

**Product Number:** R7491100

**Other Identifying Product Numbers:** R7491100-1B

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

**Company:** Ricca Chemical Company

**Address:** 448 West Fork Drive  
Arlington, TX 76012 USA

**Telephone:** 888-467-4222

#### 1.4. Emergency Telephone Number (24 hr)

CHEMTREC (USA) 800-424-9300  
CHEMTREC (International) 1+ 703-527-3887

### SECTION 2: Hazard(s) Identification

#### 2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

*For the full text of the Hazard and Precautionary Statements listed below, see Section 16.*

Hazard Class	Category	Hazard Statement	Precautionary Statements
Eye Damage / Irritation	Category 2A	H319	P264, P280, P305+P351+P338, P337+P313
Skin Sensitizer	Category 1	H317	P261, P272, P280, P302+P352, P332+P313, P321, P363, P501
Reproductive Toxicity	Category 2	H361	P201, P202, P280, P308+P313, P405, P501
Specific Target Organs/Systemic Toxicity Following Repeated Exposure	Category 1	H372	P260, P264, P270, P314, P501
Flammable Liquids	Category 2	H225	P210, P233, P240, P241, P242, P243, P280, P303+P361+P353, P370+P378, P403+P235, P501
Hazardous to the Aquatic Environment (Acute)	Category 2	H401	P273, P501

## Safety Data Sheet

### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

Hazard Number	Hazard Statement
H225	Highly flammable liquid and vapor.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.



## Safety Data Sheet

### Precautionary Statements:

Precautionary Number	Precautionary Statement
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks and open flame. No smoking.
P233	Keep container tightly closed.
P240	Ground container and receiving equipment.
P241	Use explosion-proof equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fumes, mist, vapors, or spray.
P261	Avoid breathing fumes, mist, vapors, or spray.
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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 attention.
P314	Get medical attention if you feel unwell.
P321	Specific treatment (Wash areas of contact with water).
P332+P313	If skin irritation occurs: Get medical attention.
P337+P313	If eye irritation persists: Get medical attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

### 2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.



# Safety Data Sheet

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Acetone	(CH <sub>3</sub> ) <sub>2</sub> CO	58.07 g/mol	67-64-1	88.89%
Sodium Iodide	Nal	149.89 g/mol	7681-82-5	11.11%

## SECTION 4: First-Aid Measures

### 4.1. General First Aid Information

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Results in drying and cracking which can lead to secondary infections and dermatitis. Dermal absorption causes many of the symptoms of inhalation.

**Ingestion:** Aspiration hazard. Do not induce vomiting, vomiting may occur spontaneously. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician.

### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Flammable liquid. Harmful if swallowed or inhaled. If ingested, vomiting may occur spontaneously, but do not induce. Call a physician immediately. Causes irritation to the eyes, skin and respiratory tract. Wash areas of contact with water. May affect central nervous system. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: Results in drying and cracking which can lead to secondary infections and dermatitis. Dermal absorption causes many of the symptoms of inhalation. CHRONIC EFFECTS / CARCINOGENICITY: Repeated ingestion of Triethanolamine has caused liver and kidney damage in animals.

### 4.3. Medical Attention or Special Treatment Needed

Specific treatment (Wash areas of contact with water).

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Dry chemical, alcohol foam, carbon dioxide

### 5.2. Specific Hazards Arising from the Substance or Mixture

Highly flammable liquid and vapor. Vapors may produce flash fires. Vapors can flow along surfaces to distant ignition source and flash back. Explosion hazard when exposed to heat, flame or oxidizers.

### 5.3. Special Protective Equipment for Firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## Safety Data Sheet

### SECTION 6: Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection.

#### 6.2. Cleanup and Containment Methods and Materials

Remove all sources of ignition. Contain spill. Absorb in suitable material (vermiculite, dry sand, etc.) for disposal in a RCRA approved waste disposal facility. Ventilate area of spill. Do not flush to sewer.

### SECTION 7: Handling and Storage

#### 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in secure, flammable storage area away from all sources of ignition. Empty containers may be hazardous since they retain product residues. Use non-sparking tools and equipment.

### SECTION 8: Exposure Controls / Personal Protection

#### 8.1. Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Acetone (67-64-1)	TWA	USA	1000 ppm TWA 2400 mg/m <sup>3</sup> TWA	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Acetone (67-64-1)	TLV-STEL	USA	500 ppm STEL	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Acetone (67-64-1)	TLV-TWA	USA	250 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Sodium Iodide (7681-82-5)	TLV-TWA	USA	0.01 ppm TWA (inhalable fraction and vapor)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

#### 8.2. Exposure Controls

**Engineering Controls:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

**Respiratory Protection:** If the TLV is exceeded, a half-mask organic vapor respirator may be worn for up to 10 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full facepiece organic vapor respirator may be worn for up to 50 times the exposure limit, or the maximum use concentration specified by the respirator supplier, whichever is lowest.

**Skin Protection:** Wear protective gloves and eye protection. Chemical resistant gloves.

**Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.



## Safety Data Sheet

### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. If the TLV is exceeded, a half-mask organic vapor respirator may be worn for up to 10 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full facepiece organic vapor respirator may be worn for up to 50 times the exposure limit, or the maximum use concentration specified by the respirator supplier, whichever is lowest. Chemical resistant gloves. Safety glasses or goggles.

## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

**Appearance:** Colorless to yellow liquid

**Physical State:** Liquid

**Odor:** Data not available.

**Odor Threshold:** Data not available.

**pH:** Data not available.

**Melting/Freezing Point:** Data not available.

**Initial Boiling Point /Range:** Approximately 56°C - Approximately 56°C

**Flash Point:** -18°C

**Evaporation Rate:** Data not available.

**Flammability:** Data not available.

**Flammability/Explosive Limits:** Data not available.

**Vapor Pressure:** Data not available.

**Vapor Density:** Data not available.

**Relative Density:** 0.9

**Solubility:** Data not available.

**Partition Coefficient (n-Octanol/Water):** Data not available.

**Auto-Ignition Temperature:** Data not available.

**Decomposition Temperature:** Data not available.

**Viscosity:** Data not available.

**Explosive Properties:** Data not available.

**Oxidizing Properties:** Data not available.

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.



## Safety Data Sheet

### 10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Oxidizers, Nitric Acid-Sulfuric Acid mixtures, Acids, Chromium Trioxide, Sulfuric Acid-Potassium Dichromate, Hydrogen Peroxide, Chloroform and a base, Sodium Hypobromate, heat, sparks, open flame, Copper, Copper alloys, Galvanized Iron.

### 10.4. Hazardous Decomposition Products

Will not occur.

## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

#### Acute Toxicity - Oral Exposure:

Not applicable.

#### Acute Toxicity - Dermal Exposure:

Not applicable.

#### Acute Toxicity - Inhalation Exposure:

Not applicable.

#### Acute Toxicity - Other Information:

LD50, Oral, Rat: (Acetone) 5800 mg/kg, behavioral affects noted; (Sodium Iodide) 4340 mg/kg, details of toxic effects not reported other than lethal dose value.

#### Skin Corrosion and Irritation:

Not applicable.

#### Serious Eye Damage and Irritation:

Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

#### Respiratory Sensitization:

Not applicable.

#### Skin Sensitization:

May cause an allergic skin reaction. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

#### Germ Cell Mutagenicity:

Not applicable.

#### Carcinogenicity:

Not applicable.



## Safety Data Sheet

### Reproductive Toxicity:

Suspected of damaging fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

### Specific Target Organ Toxicity from Single Exposure:

Not applicable.

### Specific Target Organ Toxicity from Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

### Aspiration Hazard:

Not applicable.

### Additional Toxicology Information:

Data not available.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in Soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.

## Safety Data Sheet

### SECTION 14: Transportation Information

#### 14.1. Transportation by Land - Department of Transportation (DOT, United States of America)

**Sizes:** 1 L

**UN Number:** UN1090

**Proper Shipping Name:** Acetone Solution

**Hazard Class:** 3

**Packing Group:** II

**Hazard Placard Labels:**



**Sizes:**

**UN Number:**

**Proper Shipping Name:**

**Hazard Class:**

**Packing Group:**

**Hazard Placard Labels:**

#### 14.2. Transportation by Air - International Air Transport Association (IATA)

**Sizes:** 1 L

**UN Number:** UN1090

**Proper Shipping Name:** Acetone Solution

**Hazard Class:** 3

**Packing Group:** II

**Hazard Placard Labels:**



### SECTION 15: Regulatory Information

#### 15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.



## Safety Data Sheet

### 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Not listed.

### 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Acetone (CAS # 67-64-1): 5000 lb final RQ; 2270 kg final RQ

### 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Not listed.

### 15.5. Massachusetts Right-to-Know Substance List

Acetone (CAS # 67-64-1): Present

### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Acetone (CAS # 67-64-1): Environmental hazard

Acetone (CAS # 67-64-1): Present

### 15.7. New Jersey Worker and Community Right-to-Know Components

Acetone (CAS # 67-64-1): flammable - third degree

Acetone (CAS # 67-64-1): sn 0006

### 15.8. California Proposition 65

Not listed.

### 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Acetone (CAS # 67-64-1): Present (DSL)

Sodium Iodide (CAS # 7681-82-5): Present (DSL)

### 15.10. United States of America Toxic Substances Control Act (TSCA) List

Acetone (CAS # 67-64-1): Present

Sodium Iodide (CAS # 7681-82-5): Present

### 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS),

European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

# Safety Data Sheet

## SECTION 16: Other Information

### 16.1. Full Text of Hazard Statements and Precautionary Statements

Highly flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection.

IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. Specific treatment (Wash areas of contact with water). If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Wash contaminated clothing before reuse. In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

### 16.2. Miscellaneous Hazard Classes

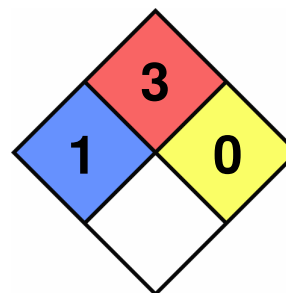
**Canadian Carcinogenicity Hazard Class:** Not Applicable.

**Physical Hazards Not Otherwise Classified (PHNOC):** Not Applicable.

**Health Hazards Not Otherwise Classified (HHNOC):** Not Applicable.  
Not Applicable.

### 16.3. National Fire Protection Association (NFPA) Rating

**Health:** 1  
**Flammability:** 3  
**Reactivity:** 0  
**Special Hazard:**





## Safety Data Sheet

### 16.4. Document Revision

**Last Revision Date:** 5/1/2015

### DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

# Safety Data Sheet (SDS)

Dec. 09, 2015

## SECTION 1 — CHEMICAL PRODUCT AND IDENTIFICATION

### Ethanollic Silver Nitrate (1%)

Copper Mountain College, 6162 Rotary Way, Joshua Tree, CA 92252 760 366-3791 (mixed using Flinn Sci. Chemicals)

CHEMTREC Emergency Phone Number: (800) 424-9300

Pictograms



## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing mist, vapors or spray (P261).

Hazard class: Specific target organ toxicity, single exposure (Category 1). Causes damage to organs (H370). Addition of denaturant makes the product poisonous. Cannot be made nonpoisonous.

## SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ethyl alcohol	64-17-5	C <sub>2</sub> H <sub>5</sub> OH	46.07	79-86%
Isopropyl alcohol	67-63-0	C <sub>3</sub> H <sub>8</sub> O	60.10	8-9%
Methyl alcohol	67-56-1	CH <sub>3</sub> OH	32.04	3-5%
Methyl isobutyl ketone	108-10-1	C <sub>6</sub> H <sub>12</sub> O	100.16	<1%
Water	7732-18-5	H <sub>2</sub> O	18.00	4-5%
Silver Nitrate	7761-88-8	AgNO <sub>3</sub>	169.87	1%

## SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Call a POISON CENTER or physician (P307+P311).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313). **If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician or poison control IMMEDIATELY

## SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid due to ethyl alcohol content.

Flash point: 16-21 ° C

When heated, releases flammable fumes.

**In case of fire:** Use a tri-class dry chemical fire extinguisher (P370+P378).

**NFPA CODE**

H-2

F-3

R-0

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SDS #: 326.00

**SECTION 7 — HANDLING AND STORAGE**

Revision Date: March 21, 2014

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor™ can.

Keep container tightly closed and cool (P233+P235). Use explosion-proof electrical and ventilating equipment (P241). Take precautionary measures against static discharge (P243).

**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Ethanol: Exposure guidelines: (as ethyl alcohol) PEL 1000 ppm (OSHA), Ceiling 1000 ppm (ACGIH)

Silver Nitrate: Exposure guidelines: PEL/TLV 0.01 mg/m<sup>3</sup> (OSHA, ACGIH)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear liquid. Strong alcohol odor.

Soluble: Miscible with water and many organic solvents.

Boiling point: 78 °C

Melting point: -144 °C

Specific gravity: 0.7893

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals, ammonia, moisture, heat, open flame, or any source of ignition.

Shelf life: Excellent, if stored properly.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Ethyl Alcohol

Acute effects: Eye damage, nausea, dizziness, headache

Chronic effects: Liver damage, reproductive, teratogenic effects, carcinogen.

Target organs: Eyes, skin, central nervous system, liver, reproductive system.

ORL-RAT LD<sub>50</sub>: 7060 mg/kg (as ethyl alcohol)

IHL-RAT LC<sub>50</sub>: 20,000 ppm/10H (as ethyl alcohol)

SKN-RBT LD<sub>50</sub>: N.A.

Silver Nitrate: Acute effects: Diarrhea, cyanosis

ORL-RAT LD<sub>50</sub>: 1173 mg/kg Chronic effects: Argyrosis

**SECTION 12 — ECOLOGICAL INFORMATION**

Data not available.

**SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply before proceeding.

Suggested Disposal Method: Heavy Metal Disposal

**SECTION 14 — TRANSPORT INFORMATION**

Shipping name: N/A

**SECTION 15 — REGULATORY INFORMATION**

Ethanol: TSCA-listed, EINECS-listed (200-578-6), RCRA code D001. Silver Nitrate: EINECS-listed (231-853-9), RCRA code D001, D011.

**SECTION 16 — OTHER INFORMATION**

This Safety Data Sheet (SDS) is for guidance and is based upon information provided from Flinn Scientific, Inc. Ethyl Alcohol and Silver Nitrate SDS.

Consult Flinn Scientific SDS sheets on Ethyl Alcohol and Silver Nitrate for more information.