

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Pyxis TCL-EC Reagent**
Trade Name: **4% Potassium Iodide Solution Ammonium Acetate Buffer**

Pyxis Laboratories, Inc.

21242 Spell Circle

Tomball, TX, 77375 USA

www.pyxis-lab.com

+1(774)233-1189

**Emergency Phone
Number**

CHEMTREC

1-800-262-8200

2. HAZARDS IDENTIFICATION

GHS Ratings:

Skin corrosion/irritation	Category 1A	H314
Harmful if swallowed	Category 4	H302
Serious eye damage/eye irritation	Category 1	H318
Toxic if swallowed	Category 5	H301

GHS Hazards

H226- Flammable liquid and vapor
H301- Toxic if swallowed
H302 - Harmful if swallowed
H314-Causes severe skin burns eye damage
H315-Causes skin irritation
H318- Causes serious eye damage
H319-Causes serious eye irritation
H335-May cause respiratory irritation
H402-Harmful to aquatic life

GHS Precautions

P260 - Do not breathe vapors, mist, spray
P264 - Wash exposed skin thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center or doctor/physician
P363 - Wash contaminated clothing before reuse
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations
If inhaled: Remove person to fresh air and keep comfortable for breathing

Signal Word: **Danger**



3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Concentration
Potassium Iodide	7681-11-0	4%
Ammonium Acetate	631-61-8	22%
Acetic Acid	64-19-7	2%
Water	7732-18-5	72%

4. FIRST AID MEASURES

Inhalation:

Remove victim to fresh air and keep a rest in a position comfortable for breathing. Get medical attention if any discomfort continues. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **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. Call a physician immediately.

Eye Contact:

Acetic acid is corrosive. Check for and remove contact lenses if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

Skin Contact:

Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing

Ingestion:

Swallowing can cause injury and possibly death. Sore throat, diarrhea, vomiting may occur. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a poison center or physician immediately.

Notes to Physician:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point: N/A

Flammability of the Product:

Not Flammable.

Extinguishing Media:

Water spray, dry powder, alcohol resistant foam, carbon dioxide

Special hazards arising from the substance or mixture:

Corrosive and/or toxic fumes.

Specific hazards during fire fighting:

Excessive thermal conditions may yield hazardous combustion products listed above.

Fire Fighting Methods:

Standard procedure for chemical fires. Cool containers / tanks with water spray.

Special protective equipment for fire-fighters:

As in any fire, wear MSHA/NIOSH approved (or equivalent) self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. In the event of fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment (see Section 8). Avoid contact with skin and eyes.

Emergency Procedures:

In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

Environmental precautions:

Should not be released into the environment. Stop the leakage if possible.

Methods for cleaning up:

Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be diluted with water. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations. In case of large spillage, contain and collect into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling:

Wear appropriate personal protective equipment (see Section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work areas. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Limit exposure to moisture. Use caution when opening product container, as pressure buildup may occur. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and precautions listed for this product.

Storage:

Store in a cool, dry, ventilated area. Store in a segregated and approved area away from incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

Materials for packaging:

Suitable material: original container, plastic (PE, PP, PVC), Stainless steel .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Occupational exposure controls:

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product .

Control of environmental exposure:

Do not let product enter drains. Discharge into the environment must be avoided.

Respiratory protection

An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

Hand protection

Glove material: Nitrile rubber disposable gloves.

Eye protection

Safety glasses with side-shields. Maintain eyewash fountain in work area. Maintain approved eye wash station and accessible rinse facilities in work area.

Skin and body protection

Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves. Maintain safety shower in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless, transparent liquid. Odor: Pungent, characteristic Odor threshold: ND Freezing point: ND Boiling range: ND Evaporation rate: ND Explosive Limits: ND pH: 5-6 Specific gravity : 1.06 Autoignition temperature: ND Vapor Density: ND Appearance: ND	Vapor Pressure: ND Melting point: ND Solubility: Miscible with water Flash point: ND Flammability: ND Partition coefficient (n- ND octanol/water): ND Decomposition temperature: ND Grams VOC less water: ND
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10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Incompatibility materials

Oxidizing agents, Strong Bases, Metals, Amines, Carbonates, Phosphates, Alkalis

Hazardous reactions:

May react vigorously or violently if exposed to excess thermal conditions or in contact with the incompatible materials listed above. Contact with metals may yield hazardous concentrations of hydrogen gas.

Hazardous decomposition products

Carbon oxides, nitrogen oxides, hydrogen

11. TOXICOLOGICAL INFORMATION

NO DATA

12. ECOLOGICAL INFORMATION

Ecotoxicological Data:

Water:

Not applicable.

Ammonium Acetate:

No information found.

Acetic Acid:

EC₅₀, Water Flea (*Daphnia magna*): 47 mg/L 24 h

LC₅₀, Fathead Minnow (*Pimephales promelas*): 88 mg/L 96 h

LC₅₀, Rainbow Trout (*Oncorhynchus mykiss*): > 1000 mg/L 96 h

Potassium Iodide:

LC₅₀, Zebra Mussel (*Dreissena polymorpha*): 220-313 mg/L, 24 h

LC₅₀, Rainbow Trout (*Oncorhynchus mykiss*): 2190 mg/L 96 h

Persistence and Degradability: Expected to be readily biodegradable and unlikely to bioaccumulate.

Environmental Effects: May be harmful to aquatic organisms. Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Product:

All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers. Whatever can not be saved for recovery or neutralized should be sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility.

Contaminated Packaging:

Because emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

14. TRANSPORT INFORMATION

Agency **Proper Shipping Name** **UN Number Packing Group Hazard Class**

DOT Not Regulated, as it is not dangerous goods

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Sections 311/312:

Hazard Category	List (Yes/No)
Section 311 – Hazardous Chemical	Yes
Immediate Hazard	Yes
Delayed Hazard	Yes
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	Yes

- SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

16. OTHER INFORMATION

Disclaimer: All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable: However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. Pyxis Lab, Inc. does not assume any liability arising out of the use by others of this product.

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