

# MATERIAL SAFETY DATA SHEET



Date Issued: 09/21/2010  
MSDS No: PTFEA

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT CODE:** PTFE ELECTROLESS NICKEL PART A

### MANUFACTURER

Caswell Inc  
7696 Route 31  
Lyons, NY 14489

**Emergency Contact:** Caswell Inc

**Product Stewardship:** 315 946 1213

**Transportation:** 800 424 9300

**Service Number:** 315 946 1213

Caswell Inc  
7696 Route 31  
Lyons, NY 14489  
USA

**Emergency Contact:** Caswell Inc

**Emergency Phone:** +1 315 946 1213

**Service Number:** +1 315 946 1213

**Transportation Number:** +1 703 527 3887

### 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US TRANSPORTATION) - 1 800 424  
9300

CHEMTREC (INTERNATIONAL - CALL COLLECT) -  
1 703 527 3887

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS




Health	Environmental
Acute Toxicity (Oral), Category 3 Acute Toxicity (Inhalation), Category 4 Skin Irritation, Category 3 Respiratory Sensitization, Category 1 Carcinogenicity, Category 1A Reproductive Toxicity, Category 2 Target Organ Toxicity (Repeated exposure), Category 2	Aquatic Toxicity, Chronic 1

### GHS LABEL

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 Skull and crossbones	 Health hazard
DANGER	DANGER
H301: Toxic if swallowed. H332: Harmful if inhaled. H317: May cause an allergic skin reaction. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	H350: May cause cancer . H361: Suspected of damaging fertility or the unborn child .
 Environment	
DANGER	
H410: Very toxic to aquatic life with long lasting effects.	
<p><b>PRECAUTIONARY STATEMENT(S)</b></p> <p><b>Prevention:</b></p> <ul style="list-style-type: none"> <li>P270: Do no eat, drink or smoke when using this product.</li> <li>P273: Avoid release to the environment.</li> <li>P261: Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>P285: In case of inadequate ventilation wear respiratory protection.</li> <li>P103: Read label before use.</li> <li>P202: Do not handle until all safety precautions have been read and understood.</li> </ul> <p><b>Response:</b></p> <ul style="list-style-type: none"> <li>P301+A1600: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li> <li>P302+P352: IF ON SKIN: Wash with plenty of soap and water.</li> <li>P341: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.</li> </ul>	

## EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** Nickel Compounds may cause moderate to severe irritation to the skin and eczema.

## POTENTIAL HEALTH EFFECTS

**EYES:** Can cause severe eye irritation.

**SKIN:** Long term exposure to skin may cause skin irritation and may cause sensitization or allergic reactions resulting in chronic eczema or "nickel itch"

**INGESTION:** Can burn mouth, throat and stomach.

**INHALATION:** Irritating to the nose, throat and respiratory tract.

**MEDICAL CONDITIONS AGGRAVATED:** Hypersensitivity to nickel is common and can cause allergic contact dermatitis, pulmonary asthma, conjunctivitis and inflammatory reactions around nickel containing materials.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	Wt.%	CAS	EINECS
Nickel Sulfate	45	7786-81-4	- -

## 4. FIRST AID MEASURES

**EYES:** Flush eye with water for 15 minutes. Get medical attention.

**SKIN:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**INGESTION:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** NA = Not Applicable

**FLAMMABLE LIMITS:** NA = Not Applicable

**EXTINGUISHING MEDIA:** Any available.

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Toxic fumes and metal oxides may be emitted.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid contact with eyes, skin, and clothing.

**HANDLING:** Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**STORAGE TEMPERATURE:** (50°F)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Nickel Sulfate	TWA		1		0.1

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields (or goggles) and a face shield.

**SKIN:** Wear gloves.

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

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**PROTECTIVE CLOTHING:** Wear suitable protective clothing at all times.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid  
**ODOR:** None  
**COLOR:** Clear, emerald green  
**pH:** 3.4 to 3.7  
**BOILING POINT:** > (215°F)  
**FLASHPOINT AND METHOD:** NA = Not Applicable  
**SOLUBILITY IN WATER:** Complete  
**DENSITY:** 11.18  
**SPECIFIC GRAVITY:** 1.332 to 1.348

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes  
**HAZARDOUS POLYMERIZATION:** No  
**CONDITIONS TO AVOID:** Acidic conditions.  
**INCOMPATIBLE MATERIALS:** Strong alkalines. Strong mineral acids.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)
Nickel Sulfate	275 mg/kg

### CARCINOGENICITY

Chemical Name	IARC Status
Nickel Sulfate	Group 1 Carcinogen

## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Comply with all local, state and federal laws.

## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**  
**PROPER SHIPPING NAME:** Not restricted by DOT

## 15. REGULATORY INFORMATION

**UNITED STATES**  
**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

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**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes  
**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** All ingredients in this mixture are in compliance with TSCA.

**CALIFORNIA PROPOSITION 65:** WARNING: This product contains chemicals known to the State of California to cause cancer.

Chemical Name	Wt.%	Listed
Nickel Sulfate	45	<ul style="list-style-type: none"> <li>• Cancer</li> <li>• Female Reproductive</li> </ul>

## 16. OTHER INFORMATION

**REASON FOR ISSUE:** New Product

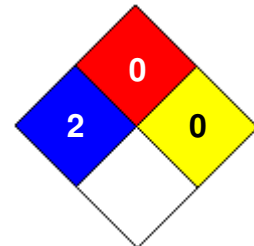
**PREPARED BY:** L CASWELL

**REVISION SUMMARY:** New MSDS

### HMIS RATING

<b>HEALTH:</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY:</b>	<input type="checkbox"/>	<b>0</b>
<b>PHYSICAL HAZARD:</b>	<input type="checkbox"/>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	<input type="checkbox"/>	<b>C</b>

### NFPA CODES



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