

MATERIAL SAFETY DATA SHEET



Date Issued: 03/12/2007

MSDS No: TINCON

Revision No: New MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: Tin Plating Concentrate

MANUFACTURER

CASWELL INC.
7696 ROUTE 31
LYONS NY 14489

Emergency Contact: 8004249300**Product Stewardship:** 3159461213**Transportation:** 8004249300**Service Number:** 3159461213

CASWELL INC.
7696 ROUTE 31
LYONS NY 14489
USA

Emergency Contact: CHEMTREC**Emergency Phone:** +1 703 527 3887**Service Number:** +1 315 946 1213**Transportation Number:** +1 703 527 3887

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC: 1 800 424 9300**CHEMTREC INTERNATIONAL: 703 527 3887**

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"C" - Corrosive

POTENTIAL HEALTH EFFECTS

EYES: Can cause severe eye irritation.**SKIN:** Corrosive, causes skin burning.**SKIN ABSORPTION:** May be absorbed through the skin in harmful amounts.**INGESTION:** Can burn mouth, throat and stomach.**INHALATION:** May be fatal.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

INHALATION: May include a burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.**ACUTE TOXICITY:** Harmful if swallowed, inhaled or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of larynx and bronchi, chemical pneumonitis and pulmonary edema.**MEDICAL CONDITIONS AGGRAVATED:** None Expected.**ROUTES OF ENTRY:** Ingestion. Inhalation. Skin Contact. Eyes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS	EINECS
Stannous Sulfate	19	7488-55-3	
Sulfuric Acid	0 - 2	007664-93-9	231-639-5

4. FIRST AID MEASURES

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

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: Do not induce vomiting. Give milk or water. Get immediate medical attention. Careful evacuation of stomach by medical personnel imperative.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: 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.

FIRE FIGHTING EQUIPMENT: Any Available.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Wearing adequate protective gear, neutralize spill with sodium bicarbonate or sodium carbonate. Transfer to container for storage. After spill is cleaned up, ventilate area and wash with water. Avoid contamination of surface and ground water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep in closed container in a dry, well ventilated area away from incompatible materials. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings on container, as if they were full.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Stannous Sulfate	TWA		2 mg/m ³		2 mg/m ³		
Sulfuric Acid	TWA	NL ppm ^[1]	1 mg/m ³ ^[1]	NL ppm	1 mg/m ³	NL ppm	NL mg/m ³
	STEL	NL ppm	NL mg/m ³	NL ppm	3 mg/m ³	NL ppm	NL mg/m ³
Footnotes:							
1. NL = Not Listed							

PERSONAL PROTECTIVE EQUIPMENT

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

SKIN: Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

PROTECTIVE CLOTHING: Wear suitable protective clothing at all times.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Solubility in Water	Specific Gravity
Stannous Sulfate	Easily soluble in water.	1.3

PHYSICAL STATE: Liquid

ODOR: Not yet Determined

APPEARANCE: White liquid.

COLOR: White

pH: 1

SOLUBILITY IN WATER: Fully miscible

SPECIFIC GRAVITY: 1.300

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxides, Tin/Tin Oxides

INCOMPATIBLE MATERIALS: Strong oxidizing agents. Moisture sensitive.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
Stannous Sulfate	None	None	None

CORROSIVITY: Corrosive

12. ECOLOGICAL INFORMATION**13. DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD: The material should be dissolved in water. Precipitate the material as the sulfide, adjusting the pH of the solution to 7 to complete precipitation. Neutralize the solution before flushing down the drain. Observe all federal, state and local environmental regulations.

EMPTY CONTAINER: Consult appropriate federal, local regulations for disposal. Empty containers are subject to same regulations.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME: Corrosive Liquid, acidic, n.o.s.

TECHNICAL NAME: Sulfuric Acid

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN3264

PACKING GROUP: III

15. REGULATORY INFORMATION**UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Corrosive
R37/38: Irritating to respiratory system and skin.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt. %	CAS
Sulfuric Acid	0 - 2	007664-93-9

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Stannous Sulfate	7488-55-3
Sulfuric Acid	007664-93-9

CANADA**WHMIS HAZARD SYMBOL AND CLASSIFICATION**

Corrosive

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION

"C" - Corrosive

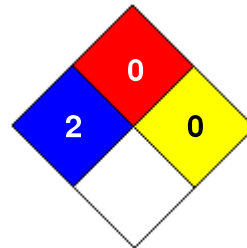
16. OTHER INFORMATION

APPROVED BY: L CASWELL **TITLE:** PRESIDENT

REVISION SUMMARY: New MSDS

HMIS RATING

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

NFPA CODES

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