

# SAFETY DATA SHEET

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: TRANSENE COMPANY, INC.  
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EMERGENCY NO. 1-800-424-9300 CHEMTREC

MATERIAL NAME: **PC ELECTROLESS COPPER SOLUTION A**  
REVISED: October 2013

CHEMICAL FAMILY: Alcohol  
Product Number: 110-0080000  
For ½ Gal: 110-0080

## SECTION 2. HEALTH HAZARD INFORMATION

### GHS Classifications

H302: Acute toxicity oral : Category 4  
H332: Acute toxicity inhalation : Category 4  
H315: Skin corrosion / skin irritation : Category 2  
H319: Serious eye damage / eye irritation : 2A  
H411: Chronic aquatic environmental hazards: Category 2

### Pictograms or Hazard symbols



Warning: Harmful if swallowed. Causes skin irritation and serious eye irritation. Harmful if inhaled.



Toxic to aquatic life with long lasting effects.

### Precautionary Statements

P261 Avoid breathing fumes/mist/vapors.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink, or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release into the environment.  
P280 Wear protective gloves, clothing, and eye and face protection.  
P301 + P312 If swallowed, call a physician if you feel unwell.  
P302 + P352 If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.  
P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.

P312 Call a physician if you feel unwell.

P330 Rinse mouth.

P332 + P313 If skin irritation occurs, get medical advice/attention.

P337 + P313 If eye irritation persists, get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### **SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS**

Material		Wt %	Toxicity (mg/m <sup>3</sup> )
Ethylenediamine tetraacetic acid, Tetrasodium salt	CAS# 64-02-8	1-5	LD <sub>50</sub> : 2.09
Triethanolamine	CAS# 102-71-6	5-10	
Diethanolamine	CAS# 111-42-2	1-5	3 ppm
Copper Sulfate	CAS# 7758-99-8	1-5	100 ppm
Sodium Hydroxide	CAS# 1310-73-2	1-5	2 ppm
Water	CAS# 7732-18-5	> 75	
Total		100	

### **SECTION 4. FIRST AID MEASURES**

#### **EFFECTS OF OVEREXPOSURE**

##### **FIRST AID:**

**Eye Contact:** Damaging to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. Vapors cause irritation.

**Skin Contact:** May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects. Symptoms include redness, burning, and swelling of skin, burns, and other skin damage. Flush skin with water for 15 minutes.

**Inhalation:** Inhalation of vapors irritates the respiratory tract. If inhaled, remove to fresh air. If not breathing give artificial respiration. May severe irritation and burns to the nose, throat and respiratory tract. Seek medical attention.

**Ingestion:** Ingestion may be harmful or fatal. Symptoms include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury. This material can get into the lungs during swallowing or vomiting, resulting in lung inflammation or other injury.

### **SECTION 5. FIRE FIGHTING MEASURES**

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	<u>LOWER</u>	<u>UPPER</u>
NA	NA		--	--

**Explosion:** Above flash point, vapor-air mixtures are explosive. Contact with strong oxidizers may cause fire or explosion. Vapors are heavier than air and can flow along surfaces to distant ignition sources and flash back. Sensitive to static discharge.

**Extinguishing media:** Water spray or fog, carbon dioxide and dry chemical.

**Special fire fighting procedures:** Wear full protective clothing and NIOSH self-contained breathing apparatus. Thermal decomposition produces toxic fumes. Contact with oxidizing reagents may cause extremely violent combustion.



Hazardous decomposition products: carbon dioxide, carbon monoxide.

Hazardous polymerization: May occur  
Will not occur X

Conditions to avoid: Excess heat, sunlight.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Triethanolamine:

Oral, rat LD<sub>50</sub>: 4.92 mL/kg

Skin, rabbit LD<sub>50</sub>: > 20 mL/kg

Irritation of skin: mild, 560 mg/24H (rabbit)

Irritation of eyes: mild, 10 mg (rabbit)

Investigated as a tumorigen, mutagen, reproductive effector

Copper Sulfate:

Oral, human LD<sub>LO</sub>: 1.088 mg(hydrate)/kg

Oral, human LD<sub>LO</sub>: 50 mg/kg(anhydrous)

Oral, rat LD<sub>50</sub>: 300 mg/kg

Tumorigenic effects have been observed on tests with laboratory animals.

Mutagenic effects have been observed on tests with human lymphocytes.

IARC-3: No

## **SECTION 12. ECOLOGICAL INFORMATION**

**Environmental Fate:** No information available.

**Ecotoxicity :** Copper Sulfate is toxic to the aquatic environment with long lasting effects.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**DISPOSAL:** Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

## **SECTION 14. TRANSPORTATION INFORMATION**

Proper shipping name: Non-hazardous, non-restricted

## **SECTION 15. REGULATORY**

NFPA: 1-2-0

WHMIS: 1-1-0

Risk Symbol: C

Risk Phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R36/37 Irritating to eyes and respiratory system

Safety Phrases:

S3/7: Keep container tightly closed in a cool place

S16: Keep away from sources of ignition—No smoking

S20/21: When using do not eat, drink, or smoke

S24/25 Avoid contact with skin and eyes

## **SECTION 16. OTHER INFORMATION**

TSCA listed ingredients